

**WILDLIFE
CONSERVATION
SOCIETY**

ANNUAL REPORT 2003

ON ALL FRONTS

The Wildlife Conservation Society saves wildlife and wild lands. We do so through careful science, international conservation, education, and the management of the world's largest system of urban wildlife parks, led by the flagship Bronx Zoo. Together, these activities change individual attitudes toward nature and help people imagine wildlife and humans living in sustainable interaction on both a local and a global scale. WCS is committed to this work because we believe it essential to the integrity of life on Earth.



CONTENTS



Tiger Mountain

10

The first new exhibit created by the Wildlife Conservation Society in the twenty-first century, Tiger Mountain offers our guests year-round connections to an iconic predator and communicates our long-term conservation programs for tigers at the Bronx Zoo and in the wild.

Living Institutions

18

From the opening of Tiger Mountain to the development of master plans, we review the year at our spectacular urban wildlife parks—Bronx Zoo, New York Aquarium, Central Park Zoo, Prospect Park Zoo, and Queens Zoo—and the Wildlife Survival Center in Georgia.

Living Classrooms

32

The WCS Education Division's award-winning programs and curricula reach youngsters, teachers, and parents from New York to China.

Living Landscapes

42

WCS field researchers pursue science-based solutions to benefit wildlife and wild places and work to help others fulfill our keenly human role as stewards of the planet.

Chairman's Letter

4

President's Letter

6

Trustees and Advisors

8

Science at Work

54

Wildlife Conservation Projects

60

Public Affairs

64

Financial Report

68

WCS Events

72

Contributors

78

Committees

86

WCS Staff

88

WCS Publications

94

Facts, Awards, Credits

96

Above: Senior Wild Animal Keeper Gina Savastano works with Duke, a California sea lion bom at the Bronx Zoo (right, Duke soaks up the sun with mother Cleo and another female, Adriane). Using scents, food, and other enrichment tools, WCS Living Institutions' staff strengthen the bonds with their wildlife charges. The WCS Animal Enrichment Program also makes managing our wildlife easier; once Gina is able to convince Duke to hop onto the scale, she can find out if he is getting enough food and growing normally.

Front cover: Norma, a Siberian tiger at the Bronx Zoo's spectacular new Tiger Mountain, is named after long-time WCS Trustee Mrs. Charles A. Dana, Jr. Tiger Mountain gives zoo guests a chance for an up-close experience with a spectacular wild species, the opportunity to meet our wild animal keepers during enrichment sessions, and encourages visitors to help support our tiger field conservation programs, such as Conservation Zoologist Ullas Karanth's project to survey Bengal tigers in India (back cover).



CHAIRMAN'S LETTER

David T. Schiff, Chairman of the Board of Trustees

THE TIGER MAY BE THE MOST potent symbol of what we think of as “the wild”—beautiful and perilous, with power that simultaneously thrills and humbles. In 2003, some of the Wildlife Conservation Society’s most exciting work centered on these magnificent big cats.

Twenty years ago, some observers proclaimed the tiger would be extinct in the wild by the year 2000. For at least that long, WCS has been working diligently—and successfully—to prove those theorists wrong. Today, we are the acknowledged leader in tiger conservation—the only organization working in all tiger range countries to protect the cats, their prey, and their habitats.

Our approach to conservation does not end in the field. It continues in classrooms, community centers, and halls of government in nations where we work with local people to set the stage for lasting commitments to conservation. Our Living Classrooms program in India is an example of our dynamic, cross-cutting work in a key tiger range country.

Half a world away, at our headquarters at the Bronx Zoo in New York City, WCS’s unique, on-all-fronts approach to tiger conservation culminated in May with the opening of our Tiger Mountain exhibit. This spectacular and stimulating three-acre habitat for Siberian tigers brings out the best in the big cats, thanks to our Living Institutions’ Animal Enrichment Program, which allows



them to behave as they would in the wild.

Tigers like Taurus (above) and Zeff (right) are the most compelling ambassadors for their kind. Our scientists estimate that fewer than 10,000 tigers remain in the wilds of Asia—far more than had been predicted by many, and a truly amazing number given the encroaching human population. However, we must not forget the enormous threats to tigers that demand our continued vigilance.

Almost unbelievably, there may be more tigers living in backyards in the United States—a fact revealed when a fully-grown tiger was discovered being kept as a pet in a New York City apartment. WCS veterinary and curatorial staff provided professional assistance in the tiger’s rescue, and in the media frenzy that followed, our experts helped bring to light the issue of big cats as pets. An estimated 15,000 big cats are being kept in

the U.S. outside accredited zoos—a 500 percent increase since 1997. The trade in exotic animals for pets is a huge threat to wildlife, and in most cases means a tragic, short life for the animals. Many of you responded to WCS’s take-action initiative—shepherded by our Public Affairs’ new Washington, D.C., office—which successfully urged Congressional action to stem the market for tigers, jaguars, and other big cats.

The compulsion to remake nature in our own image—to tame the tiger, both literally and figuratively—is one of the most ill-informed paths our species can travel; but there is a glimmer of hope even in these misguided actions. When tigers start showing up in city apartments, it seems clear that, more than ever, humans are yearning to connect with wildlife. The Wildlife Conservation Society provides that connection in a meaningful way—by encouraging our zoo visitors to safely enjoy watching tigers being tigers and by urging all those who care to join the cause of lasting tiger conservation. Our ability to bring the expertise of our field biologists, our zoo curators and keepers, and our environmental educators to bear collectively on giving tigers a future is—thankfully, and with your help—doing just that.

Humans are yearning to connect to wildlife, and the Wildlife Conservation Society provides that connection in a meaningful way.

■ DAVID T. SCHIFF

Partners, Friends, and Supporters

BEST FRIENDS

The Wildlife Conservation Society cannot overstate its gratitude to The Robert W. Wilson Fund for completing a three-year \$20 million challenge grant in support of our international conservation programs. This transformational grant is the largest in our history, and has helped to attract significant additional funding through the incentive of the challenge match.

WCS has also been the beneficiary of extraordinary generosity from partners and friends who have supported our mission with gifts of one million dollars or more this year. We offer our thanks to:

- The Christensen Fund, for establishing the Christensen Scholarship Fund and a challenge grant to foster national conservation leadership across the developing world, and for support of our Papua New Guinea program
- The Gordon and Betty Moore Foundation, for its early and generous support to spur development of the new Gabon national park system
- Josie and Julian Robertson, for their greatly valued unrestricted support, which goes to the very heart of the institution
- Virginia and Warren Schwerin, for their exceptional generosity in support of the Tiger Mountain exhibit, the Field Veterinary Program, and the Annelisa Kilbourn Fund
- The Starr Foundation, for its visionary commitment to help ensure the future of tigers worldwide through support of the Tiger Mountain exhibit, WCS tiger conservation and education programs in Asia, and Graduate Fellows in Tiger Conservation
- Allison and Leonard Stern, for their philanthropy dedicated to enhancing public and political awareness of WCS through establishment of an office in Washington, D.C.
- Joan O. L. Tweedy for her generous and forward-looking support of the planned Madagascar exhibit, and for the gorilla breeding program at the Bronx Zoo.

We are deeply grateful to Mr. and Mrs. Frederick W. Beincke, Mr. and Mrs. John Elliott, Jr., Mr.* and Mrs. Harry V. Keefe, Jr., the Gordon and Betty Moore Foundation, and Virginia and Warren Schwerin, who this year have joined WCS's circle of Best Friends and Foundations, established to recognize those whose cumulative philanthropy to WCS exceeds one million dollars.

SUPPORT ACROSS WCS

Highly valued gifts of unrestricted support were received from Enid A. Haupt, Hess Foundation, Inc., the Irwin family, The New York Community Trust—Nancy G. and C. Richard MacGrath Fund, Katharina Otto-Bernstein, and the Howard Phipps Foundation. In addition, WCS is appreciative of support from the estates of Ruth C. Arps and Elizabeth S. Livingston.

WCS is especially thankful to Ward W. Woods, J. Michael Cline, Jonathan L. Cohen, William E. Flaherty, Paul A. Gould, David T. Schiff, and Andrew H. Tisch for their understanding of the importance of planning for the future and their generosity in supporting that process.

To that special group of philanthropists who supported projects and programs both across the institution for our zoos and aquarium, and around the globe for our international conservation programs, we offer our grateful appreciation. Our thanks to Mr. and Mrs. J. Michael Cline, the Robert W. Johnson Jr. Charitable Trust and the Robert W. Johnson 1962 Charitable Trust, Edith McBean, and Ward W. and Priscilla B. Woods.

* *deceased*



PRESIDENT'S LETTER

Steven E. Sanderson, President and Chief Executive Officer

DURING THE PAST YEAR, THE Wildlife Conservation Society made great progress in integrating our living collections of wild animals and our conservation programs in the field. In May, we opened a bold, new exhibit at our flagship Bronx Zoo—Tiger Mountain, which revolves around the magnificence of Siberian tigers and our programs to conserve tigers throughout Asia.

This innovative exhibit builds on the enduring success of the zoo's Congo Gorilla Forest, a model of our commitment to unify our wildlife exhibits with our longstanding conservation efforts across the globe. Congo Gorilla Forest played an important role in hosting political dignitaries from the Congo Basin, and it continues to send millions of dollars directly to Congo forest conservation (currently \$800,000 per year), and to inspire millions of Bronx Zoo visitors to care about the future of great apes in Africa.

WCS this year also entered into a strategic alliance with ZooZürich, the government of Madagascar, and the conservation community at large. With its extraordinary new Masoala exhibit, which opened in June, ZooZürich will collaborate with WCS to remit support from its zoo visitors to the conservation of Masoala National Park, which WCS scientists manage under the aegis of the



Madagascar national parks authority.

Soon, the Bronx Zoo will begin construction of our own Madagascar exhibit in the restored Lion House. The planned conservation themes could not find a more welcome home than in this historic building, which was the venue for the initiation of the great American bison restoration at the beginning of the twentieth century.

The future is bright to continue such integration. As I complete this message, the government of Madagascar is about to announce a new national system of

protected areas, one of which will extend the protection of valuable forests adjacent to Masoala National Park. In Brazil, the state governments of Amazonas and Amapá are establishing vast new protected areas, which are modeled after the bold vision of the late WCS scientist José Márcio Ayres and the Mamirauá Sustainable Reserve. Mamirauá, now designated an official Amazonian research institute of the Brazilian nation (there are only two others), promises to offer lessons for conservation efforts far into the future.

In addition, in formal partnership with the Wildlife Conservation Society, the Zoological Society of London will co-host an international symposium in February 2004 on the future of zoos as conservation agents. With commitment, intelligence, and good fortune, we will be able to shape the future of conservation, even as the governments of the world seek partners to help conserve wild nature (right, a giraffe in eastern Africa) at home.

The future is bright for the integration of zoo and aquarium wildlife exhibition, environmental education, and wildlife conservation programs in the field.

■ DR. STEVEN E. SANDERSON

Partners, Friends, and Supporters

LIVING LANDSCAPES

In addition to those named on page 5, special thanks go to Mr. and Mrs. Frederick W. Beinecke, Conservation International Critical Ecosystem Partnership Fund, Richard and Rhoda Goldman Fund, Liz Claiborne/Art Ortenberg Foundation, John D. and Catherine T. MacArthur Foundation, David and Lucile Packard Foundation, Derald H. Ruttenberg Foundation, Saddle Foundation, and Daniel K. Thorne Foundation, Inc., for their significant support of our international conservation field programs on the various continents and in the oceans around the globe, as well as our crosscutting programs headquartered in New York City.

Conservation efforts in Africa received additional important support from Conservation International Foundation, Elyssa Kellerman, and National Geographic Society.

Our Asia Program benefitted from the generosity of Eleanor Briggs, National Fish and Wildlife Foundation and ExxonMobil Save The Tiger Fund, and an anonymous donor.

The Latin America Program received additional essential support from Michelle Andre Durand, Judith Hamilton, Montres Rolex, and an anonymous donor.

The Marine Program is grateful for significant support from Flora Family Foundation, Pew Fellows Program in Marine Conservation and The Pew Charitable Trusts, The Roe Foundation, Inc., and SeaWeb.

In North America, Laura Moore Cunningham Foundation, Richard King Mellon Foundation, M.J. Murdock Charitable Trust, Wilburforce Foundation, and an anonymous donor provided critical funding.

LIVING INSTITUTIONS

Our Living Institutions benefited from a group of donors that supported our zoos and aquarium in multiple ways, recognizing the need to build new, state-of-the-art exhibits, to maintain the health and enhance the well-being of our living collections, and to educate the public about the value of wildlife conservation. In addition to those named above, we are grateful to Mr. and Mrs. Brian J. Heidtke and Susan and Jack Rudin.

The Wildlife Health Center was assisted in fulfilling its mission in support of our Living Institutions and in our international field programs with additional assistance from The

New York Community Trust, the Schiff family, Caroline N. Sidnam, Judith P. Sulzberger, and Pamela M. Thye.

WCS is particularly grateful to those donors who have offered support for our exhibits. The Bronx Zoo's Tiger Mountain, which opened in May, received significant support from The New York Times Company Foundation. Alien Stingers at the New York Aquarium received essential support from the Independence Community Bank and Independence Community Foundation, and an anonymous donor.

The Living Institutions' Animal Enrichment Program benefited from important support from Bristol-Myers Squibb Company and Katherine Lange and Peter R. Dolan.

The Edward John Noble Foundation, Inc. continued its generous support of the Wildlife Survival Center on St. Catherines Island in Georgia.

WCS's national and international education programs enjoyed significant support from GE Foundation, Howard Hughes Medical Institute, Lucent Technologies Foundation, The Pfizer Foundation, The Picower Foundation, and Rockefeller Brothers Fund.



TRUSTEES AND ADVISORS



Board of Trustees

(as of October 31, 2003)

OFFICERS

David T. Schiff,
Chairman of the Board
Howard Phipps, Jr.,
Chairman Emeritus
Edith McBean,
Vice Chairman
Mrs. Gordon B. Pattee,
Vice Chairman
Mrs. Leonard N. Stern,
Vice Chairman
John N. Irwin III,
Treasurer
Robert W. Johnson IV,
Secretary
W.B. McKeown,
Deputy Secretary

TRUSTEES

Jane Alexander
Frederick W. Beinecke
C. Diane Christensen
J. Michael Cline
Jonathan L. Cohen
William G. Conway
Mrs. Charles A. Dana, Jr.
Robert Esnard
William L. Flaherty
Murray Gell-Mann
Bradley Goldberg
John D. Goldman
Paul A. Gould
Judith Hamilton

Brian J. Heidtke
John B. Hess
John N. Irwin III
Robert Wood Johnson IV
David R. Jones
Anita L. Keefe
Elyssa Kellerman
Michael J. Kowalski
James M. Large, Jr.
Susan Lytle Lipton
Edith McBean
Eugene R. McGrath
Frederick A. Melhado
Ambrose K. Monell
Mrs. George K. Moss
Carl A. Navarre, Jr.
Katharina Otto-Bernstein
Mrs. Gordon B. Pattee
*Richard T. Perkin
Howard Phipps, Jr.
Julian H. Robertson, Jr.
Ashley R. Schiff
David T. Schiff
Virginia Schwerin
Walter C. Sedgwick
Mrs. Richard Spalding
Michael H. Steinhardt
Mrs. Leonard N. Stern
Craig M. Taylor
Daniel K. Thorne
Andrew H. Tisch
Ann Unterberg
Ward W. Woods
E. Lisk Wyckoff, Jr.
Barbara Hrbek Zucker
*deceased

EX-OFFICIO TRUSTEES

Hon. Michael R. Bloomberg,
Mayor, City of New York
Hon. William C. Thompson, Jr.,
Comptroller, City of New York
Hon. Gifford Miller,
Speaker, New York City Council
Hon. Adrian Benepe,
Commissioner, Parks and Recreation, City of New York
Hon. Kate D. Levin,
Commissioner, Cultural Affairs, City of New York
Hon. Adolfo Carrión, Jr.,
President, Borough of The Bronx
Hon. Marty Markowitz,
President, Borough of Brooklyn
Steven E. Sanderson, *President and CEO, Wildlife Conservation Society*

LIFE TRUSTEES

Mrs. Vincent Astor
John Elliott, Jr.
Robert G. Goelet
Enid A. Haupt
Frank Y. Larkin
Laurance S. Rockefeller

HONORARY TRUSTEES

George F. Baker
Roscoe C. Brown, Jr.
Guy Cary
Mrs. Edgar M. Cullman
C. Sims Farr
Dr. Henry Clay Frick II

William Gruenerwald
John R. Hearst, Jr.
Hon. Anthony D. Marshall
Peter Matthiessen
Eben W. Pyne
Guy G. Rutherford
Dr. Judith P. Sulzberger
Mrs. Richard B. Tweedy
Sue Erpf Van de Bovenkamp
Richard A. Voell

BOARD OF ADVISORS

Hon. Rolando T. Acosta
Mrs. Rand V. Araskog
Cynthia Lewis Beck
Harry L. Bettis
Adair Beutel
Eleanor Briggs
Gilbert Butler
Martha L. Byorum
Glenn Close
The Hon. Amalia Lacroze de Fortabat
Katherine Lange Dolan
Gary C. Fink
Lori W. Fink
Candice K. Frawley
Anne Gilchrist Gleacher
Robert Gardiner Goelet
Judson C. Green
Curtis A. Harris
Christopher B. Hockett
Christopher W. Johnson
Robert W. Kean, Jr.
Israel Klabin
Elizabeth Kenny Lack

Richard I. Lesser
 William B. Lloyd
 Peter J. Madonia
 Mrs. Roman Martinez IV
 Terence J. Mitchell
 Elizabeth P. Munson
 John S. Newberry IV
 Ralph Nuñez
 Anne L. Pattee
 Merritt Paulson
 George D. Phipps
 *George Plimpton
 Jonathan Rinehart
 Charles W. Russell, Jr.
 Katherine Ruttenberg
 Dr. Jeffrey A. Sachs
 Peter G. Schiff
 Caroline N. Sidnam
 Mrs. Joseph R. Siphron
 Bradford D. Smith
 John M. Stephenson
 Mrs. John Stevenson
 Patrick J. Thomas
 Terence Hastings Thorn
 Pamela M. Thye
 Alan N. Weeden
 Mrs. Charles L. Wilson III
 Art Wolfe
 Stephanie E. K. Borynack,
ex officio
 Adair Byers,
ex officio
 Lauren Kisner,
ex officio
 *deceased

Standing Committees

AUDIT COMMITTEE

Susan Lytle Lipton,
Chairman
 Bradley Goldberg
 Brian J. Heidtke
 James M. Large, Jr.

COMPENSATION COMMITTEE

John N. Irwin III,
Chairman
 Jonathan L. Cohen
 Susan Lytle Lipton
 Mrs. Leonard N. Stern
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio
 David T. Schiff,
ex officio

DEVELOPMENT COMMITTEE

Ward W. Woods,
Chairman
 J. Michael Cline
 Jonathan L. Cohen
 Mrs. Charles A. Dana, Jr.
 William E. Flaherty
 Edith McBean
 Mrs. Gordon B. Pattee
 Mrs. Leonard N. Stern
 Andrew H. Tisch
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio

David T. Schiff,
ex officio

EXECUTIVE COMMITTEE

David T. Schiff,
Chairman
 Frederick W. Beinecke
 J. Michael Cline
 William E. Flaherty
 James M. Large, Jr.
 Susan Lytle Lipton
 Edith McBean
 Eugene R. McGrath
 Frederick A. Melhado
 Mrs. George K. Moss
 Mrs. Gordon B. Pattee
 Mrs. Leonard N. Stern
 Andrew H. Tisch
 Ann Unterberg
 Ward W. Woods
 John N. Irwin III,
ex officio
 Robert Wood Johnson IV,
ex officio
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio

FINANCE COMMITTEE

John N. Irwin III,
Chairman
 William E. Flaherty
 Bradley Goldberg
 Paul A. Gould
 James M. Large, Jr.
 Mrs. George K. Moss
 Daniel K. Thorne
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio
 David T. Schiff,
ex officio

INVESTMENT COMMITTEE

Frederick A. Melhado,
Chairman
 Paul A. Gould
 Susan Lytle Lipton
 Julian H. Robertson, Jr.
 John N. Irwin III,
ex officio
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio
 David T. Schiff,
ex officio

NOMINATING COMMITTEE

Eugene R. McGrath,
Chairman
 Robert Esnard
 William E. Flaherty
 Robert Wood Johnson IV
 Susan Lytle Lipton
 Mrs. Leonard N. Stern
 Andrew H. Tisch
 Howard Phipps, Jr.,
ex officio
 Steven E. Sanderson,
ex officio
 David T. Schiff,
ex officio

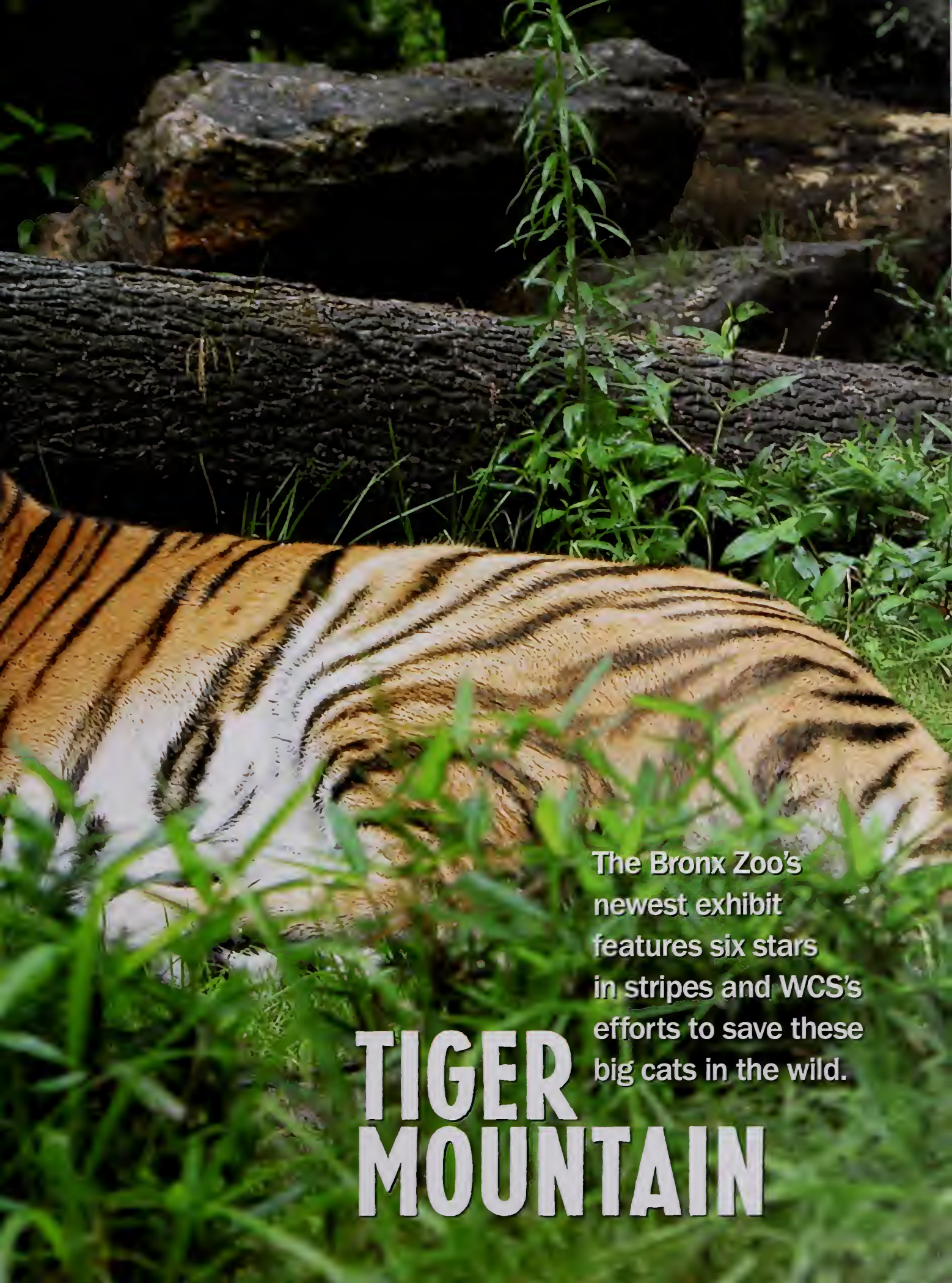
City Support

WCS IS GRATEFUL to the City of New York, which provides significant operating funds through the Department of Cultural Affairs and the Department of Parks and Recreation. We thank Mayor Michael R. Bloomberg, City Council Speaker Gifford Miller, Bronx Borough President Adolfo Carrión, Brooklyn Borough President Marty Markowitz, Queens Borough President Helen Marshall, New York City Councilmember Madeline Provenzano, Councilmember Joel Rivera, Majority Leader, Councilmember José M. Serrano, Chair, Cultural Affairs, Libraries & International Intergroup Relations Committee, and the entire New York City Council for their support of capital projects. The elected officials of the City of New York are vital to the public/private partnership on which WCS's service to the people of New York rests.



Opposite: Spring meeting of the WCS Board of Trustees. Above: a Lady Amherst's pheasant





The Bronx Zoo's newest exhibit features six stars in stripes and WCS's efforts to save these big cats in the wild.

TIGER MOUNTAIN

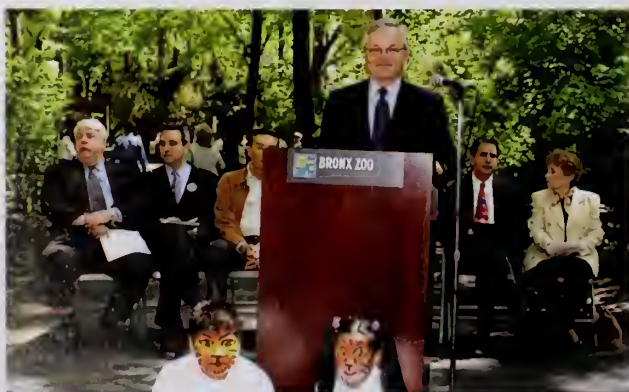


WCS's ambition for Tiger Mountain parallels our efforts to protect wild animals living safe, healthy, and free; we want tigers in New York to move people to believe in conservation.

■ DR. STEVEN E. SANDERSON

THE OPENING OF TIGER MOUNTAIN at the Bronx Zoo marks the first new exhibit created by the Wildlife Conservation Society in the twenty-first century. Despite the difficult winter we experienced in New York, Tiger Mountain opened to the public on May 15—a year and a day after the groundbreaking ceremony and under the projected cost. This innovative, new habitat offers our guests year-round connections to an iconic predator with a tremendous conservation story and communicates WCS's long-term programs for tigers at the Bronx Zoo and in the wild.

Tiger Mountain provides a naturalistic, three-acre, outdoor home for our Siberian tigers, all six of which were born in zoos. Set among the park's great oaks, the exhibit closely replicates the species' Russian homeland. Two glass-fronted rustic wood pavilions enable zoo visitors to see tigers outdoors in the snow, deep in the forest, inches away behind glass, or bathing in a cool pool. The wood used to build the pavilions and other structures was reclaimed from an abandoned railroad trestle in Oregon.



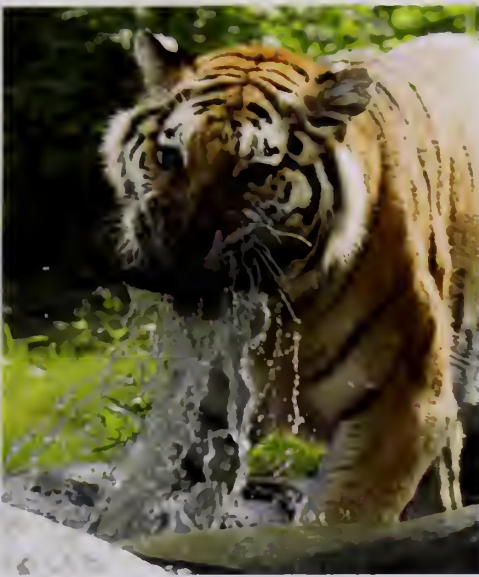




During the development stage of Tiger Mountain, studies were conducted to understand the visitor concept of tigers and preconceived notions of the cats' plight and conservation. Our findings revealed that the public shows a strong association between tigers and the idea of wildlife, which makes the tiger an excellent tool for communicating concepts of conservation. No other zoo provides as much care and stimuli for its great cats, and no other global conservation organization is as effective in field conservation for big predators or is working in as many places in Asia to save tigers—and Tiger Mountain reflects these strengths. Tiger Mountain also continues WCS's long tradition of award-winning exhibit design and incorporates three major innovations:

■ Tiger Mountain introduces guests to the close relationships between keeper and cat. Zoo visitors can watch keepers provide a repertoire of natural stimuli to enhance the animals' day—such as a tug-of-war rope pull, frozen “fish-cicles” on which the cats gnaw, and tiger-activated showers for hot days.

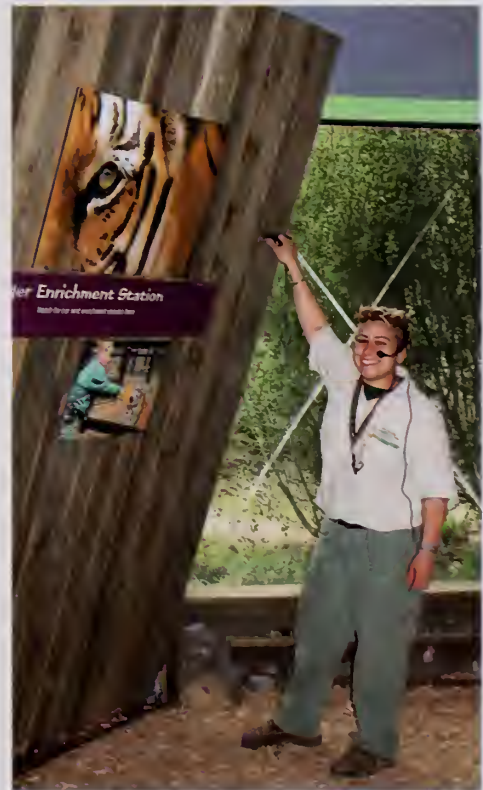




■ The exhibit uses technology to enhance keeper discussions about the WCS Living Institutions' Animal Enrichment Program, to enable visitors to see videos of animal enrichment options, and to raise issues about tiger conservation in the species' range countries in Asia.

Building upon the inspirational success of the Bronx Zoo's Congo Gorilla Forest film, experimental outdoor touch screens in Tiger Mountain give guests access to mini-videos that show the perils and successes of WCS field conservation projects for tigers. A database of mini-videos was made possible by the generous support of the Institute of Museum and Library Services. The Cline Family Theater introduces visitors to a typical field scientist's tent and a metaphorical "poacher's truck" to stimulate self-exploration of tiger conservation issues. A "camera trap" placed nearby catches zoo visitors briefly on screen just as tigers and other wild species are "caught" on film by similar camera apparatus, in order to be identified and studied by our research teams in nature. The Exhibits and Graphics, Information Technologies, and TV & Media staffs worked hand-in-hand to design technology systems to deliver the WCS message through innovative media.

■ An experimental "Take a Tiger Home" email enrollment station encourages zoo visitors exiting the exhibit to sign up for regular updates about the Bronx Zoo's tigers and WCS tiger conservation in Asia. This database captures a new audience for the Public Affairs division's dissemination of the WCS conservation message.



WCS ANIMAL ENRICHMENT



THE WCS ANIMAL ENRICHMENT PROGRAM has grown and flourished. This year, the Keeper Enrichment Program produced training manuals, sent keepers to workshops, and provided special training in behavioral research methods. Of particular note, Christine Sheppard, Curator of Birds at the Bronx Zoo, invited Steve Martin, an internationally known bird trainer, to conduct workshops on operant conditioning techniques. The sessions were filmed and a CD is being produced for our keeper-training course. Queens Zoo Wild Animal Keeper David Morales joined WCS International Conservation field scientist Isaac Goldstein in Venezuela to study spectacled bears in their natural habitat in order to better evaluate husbandry and enrichment needs of the zoo's animals. Bronx Zoo Mammal Department Wild Animal Keeper Nicole Rella

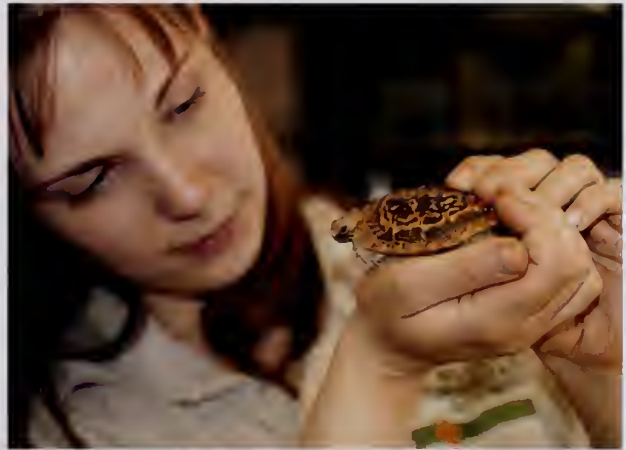




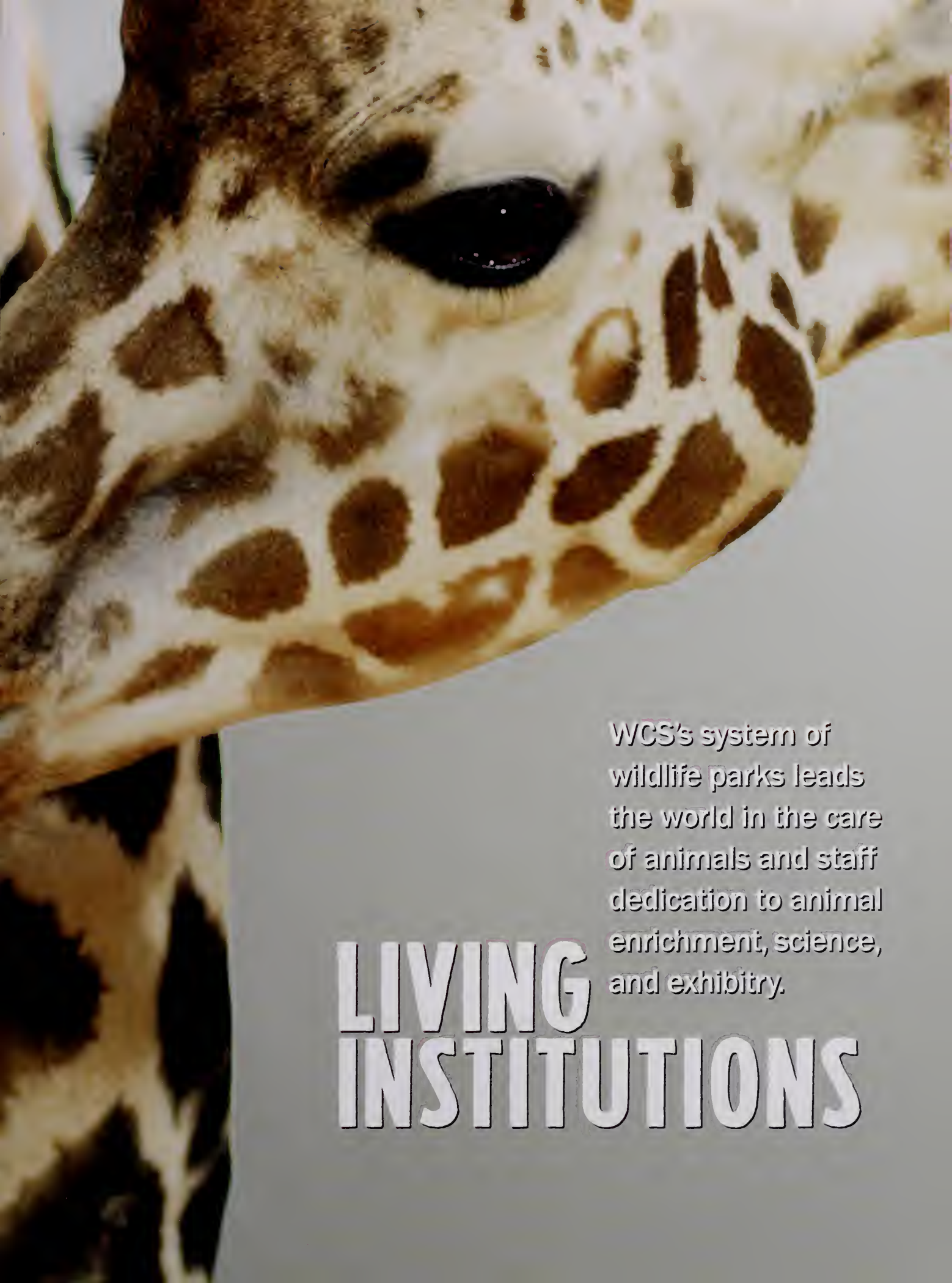
attended an AZA course in animal enrichment and training programs, which helped her coordinate and manage the keeper training at Tiger Mountain.

In addition, the popular “Close Encounters With The Animal Mind” lecture series continued with four stimulating explorations of the latest theories in animal communication and culture, featuring leading authorities in the growing field of animal cognition. As in the first year, primate culture and communication were a focus, but in this year of Tiger Mountain, it was fitting that two of the lecturers investigated the behavior of cats big and small.

Also this year, a seasonal exhibit called Taking Care of Mind and Body—Enriching Animals’ Lives opened in Zoo Center at the Bronx Zoo. It showcases the items that the keepers use with our animals, such as the balls given to tigers and bears, complete with teeth and claw marks. A live turtle exhibit incorporates graphics that show guests the parameters our animal experts consider to provide the best in animal care as they develop exhibits.







WCS's system of wildlife parks leads the world in the care of animals and staff dedication to animal enrichment, science, and exhibitry.

LIVING INSTITUTIONS



Conservation demands a global commitment in which wildlife and wild places are fundamental to life on Earth. We can inspire this through the magnificent animal ambassadors at our zoos and aquarium.

■ RICHARD LATTIS

TWO MAJOR EVENTS challenged the WCS Living Institutions this year. The first was the opening of Tiger Mountain at our flagship Bronx Zoo, and the second was the budget crisis in New York City. At Tiger Mountain, which opened in late May, staff from all the Living Institutions and the International Conservation programs added their expertise and enthusiasm to the making of a new kind of guest experience. Architects, engineers, designers, artists, writers, researchers, photographers, filmmakers, computer analysts, and more worked with wildlife experts to develop this innovative exhibit (see pages 10-15).

The other major event was the proposed New York City budget, which called for massive reductions in City support for the Bronx Zoo and the New York Aquarium, and the closing of Prospect Park and Queens zoos. The cuts would have decimated the aquarium and significantly diminished programs and exhibits at the Bronx Zoo. In response, WCS mounted an S.O.S. campaign (Save New York's Zoos and Aquarium), spearheaded by our Public Affairs division. Employees from all the Living Institutions banded together to help man signature tables and participated in rallies in the various boroughs. More than 180,000 of our guests signed petitions and some 80,000 emails were sent to city, state, and federal representatives supporting the Living Institutions. The new budget plan, announced in late June, restored \$4.8 million of the original \$5.8 million targeted for operating expenses at the Queens and Brooklyn zoos.

WCS's Living Institutions drew on the professionalism and expertise of all its staff to create and open Tiger Mountain in May (right, Zeff and Taurus communicate; above, Wild Animal Keeper Jason Rowe engages Taurus in animal enrichment training). Pages 18-19: A female giraffe at the Bronx Zoo bonds with her youngster.





At the Bronx Zoo's spectacular Congo Gorilla Forest, our population of western lowland gorillas (above) numbers more than 20 and continues to grow. Congo Gorilla Forest is one of the most significant animal exhibits in the world. It is the first to allow zoo guests to contribute their entrance fees directly to conservation projects in the wild. In the spring of this year, WCS staff in many departments worked closely with the local community to begin construction of Riverwalk, an interpretive nature trail that runs along the eastern bank of the Bronx River (left, Bronx Zoo Herpetology Curator John Behler with a painted turtle).

While these events were going on, we continued a master plan process for the Bronx Zoo Renaissance in workshops with more than 120 staff members and the architectural design firm Ayers Saint Gross (ASG). The process involved an observation phase, in which ASG looked at our history as a zoo, a park, and a major New York cultural center; a review of regional maps to clarify the importance of our 265 acres as part of a natural-corridor system and a place of refuge for wildlife and

people; an ecological assessment of the topography and native forest; and an analysis of the complicated circulation patterns and the many uses of the park. The final report, which will provide a framework for future use of the zoo grounds, will be submitted in late 2003.

In addition, more than 30 WCS staff participated in a sustainable design charrette—a two-day workshop to incorporate green thinking into our operations and master planning. Led by the Rocky Mountain Institute, WCS staff and Ayers Saint Gross, as well as key representatives from New York City agencies and the New York Power Authority, brainstormed concepts for an energy master plan, green design and landscaping, site hydrology, and visitor experience.

In late spring, construction began on Riverwalk, an interpretive nature trail along the eastern bank of the Bronx River. Riverwalk will connect the community to native wildlife and show how local human activities along the river affect wild species and lands. The exhibit will also help restore resources for wildlife in this urbanized area. The new exhibit, free to all park visitors, will have its official opening in spring 2004.

Largest of the six buildings on the Bronx Zoo's historic Astor Court, the Lion House has served as a temporary home for the New York Aquarium, a place for National Guard meetings during World War II, a premier exhibit of carnivores, and the site of the formation, in 1905, of the American Bison Society. Soon, this building will take on new life as Madagascar!, a dynamic habitat featuring some of the world's most fascinating animals and plants. In addition, half of the building will serve as a much-needed site for community meetings, lectures, art exhibitions, and conferences. Funded by the City of New York and spearheaded by WCS Exhibits and Graphic Arts staff with the architectural firm Fox and Fowle, the design will restore the building to its former glory and incorporate green design policies, including a \$1.2 million fuel cell, funded by the New York Power Authority and the New York State Energy Research and Development Authority. Projected opening of Madagascar! is summer 2006.

At Congo Gorilla Forest, our male Oliver, now 17 years old, returned from being on loan to the Memphis Zoo to become the new breeding male in one of the gorilla groups. Our gorilla matches are not made in heaven; rather, they occur after careful planning by curators and keepers. Our population continues to grow and we now have 25 western lowland gorillas. In early June, at Himalyan Highlands, Biscuit became the ninety-third snow leopard cub born at the Bronx Zoo, which, in 1903, was the first to exhibit these magnificent big cats in the Western Hemisphere.

The Ornithology Department's hatching of three healthy adjutant stork chicks was a record-setting event for North American zoos and a story of WCS teamwork. In early 2002, male John Noble (who came to the Bronx from the Wildlife Survival Center on St. Catherines Island) developed an open wound on his right leg, which became infected. After a lot of TLC by the Wildlife Health Sciences staff and the keepers, he improved. Roughly a year later, John Noble and female Fergie (who obviously came from the United Kingdom) produced a clutch of three eggs. Earlier, the Wildlife Health Center and Ornithology had discovered that these stork chicks require twice the amount of calcium as other chicks. As a result, each fish and mouse fed to Claudia, Jude, and Miss Clark was injected with a high-calcium formula. The three are doing well, and their parents take good care of them.

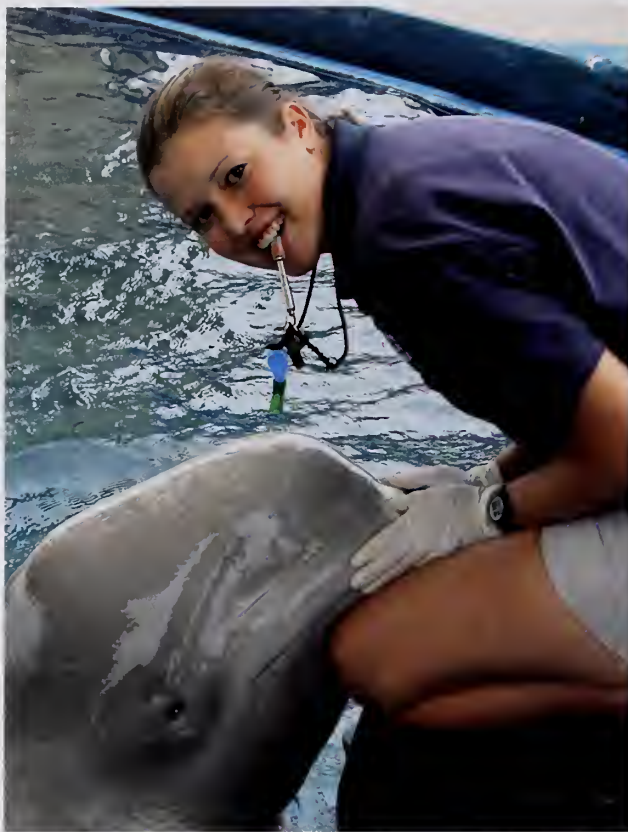
At the World of Reptiles, a new limestone riverbank exhibit for our Fly River turtle was completed. Freddie, who came to



Training the Curators

THE MANAGEMENT OF our Living Institutions demands a high level of expertise and training. Over the past 30 years, a number of our curators and directors began their careers under our curatorial internship program. Among the former interns who have joined the WCS animal management ranks are Dan Wharton, Director of Central Park Zoo; John Rowden, Curator of Animals at Central Park Zoo; John Behler, Curator of Herpetology at the Bronx Zoo; Christine Sheppard, Curator of Ornithology at the Bronx Zoo; Patrick Thomas, Curator of Mammals at the Bronx Zoo; and Colleen McCann, Curator of Primatology at the Bronx Zoo.

This year, after a long hiatus, our curatorial internship program welcomed Peyton West to the Mammal Department. West graduated from Yale University and was awarded a PhD by the University of Minnesota for her study of sexual selection and the African lion's mane in Serengeti National Park. Along with learning how to manage an animal collection, West will be drawing on her experience with big cats to study vocalizations in the Bronx Zoo's tiger population.



Bronx Zoo Omithology Department Assistant Curator Nancy Clum (above, on right) and Senior Wild Animal Keeper Yvetta Pokomy with a Chilean flamingo chick hatched this year. New York Aquarium trainer Patricia Bulko works with one of our beluga whales (top). At Prospect Park Zoo, western gray kangaroos were introduced to the Discovery Trail (right).

the zoo as a youngster in 1958, enjoys searching his habitat for crayfish and snails.

Herpetology Department and NPS/WCS field crews have been studying the threatened wood turtle and timber rattlesnake in Delaware Water Gap National Recreation Area, which runs along the Pennsylvania-New Jersey border, since 2000. With additional funding this year, a study was added to examine the endangered bog turtle's distribution, ecology, and population viability so the Park Service can develop a species' management plan.

In January, Collection Manager William Holmstrom, WCS Veterinarian Barbara Mangold, and International Conservation herpetologist John Thorbjarnarson collaborated with the Myanmar Forestry Department and the WCS Myanmar Program staff on a turtle and tortoise workshop. Twelve students learned principles of field study, captive husbandry, and health assessment. Disappointing surveys to find the critically endangered Burmese tortoise brought home to the students the fact that their nature heritage is being lost to exploitation for food markets in China.

At the New York Aquarium, Paul Boyle, newly appointed director, embarked with other WCS staff upon the first master plan process for the aquarium with the Portico Group of Seattle. Planning workshops were conducted with WCS employees, Trustees, New York City officials, and a variety of others to knit together the eclectic architecture, current projects, and exciting new exhibits.

Already under construction, the Aquatic Animal Health Center will be completed in 2004. The state-of-the-art center will address the unique health care needs of the marine collection, and the expanded facilities will enable the aquarium to better participate in the regional network for rescuing marine wildlife stranded along our shores.

A new Seaside Café, scheduled to open in summer 2004, is also under way. Sited at the southern end of the campus along the Coney Island Boardwalk, it will seat 132 guests and takes its inspiration from a northeast American fishing village.

Aquarium animal department, training, and education staffs have developed a new sea lion demonstration, and the renovated Aquatheater is equipped with new docks stretching around the perimeter of the pool. This new configuration allows the sea lions to walk directly up to the front row of the stadium . . . much to the surprise and delight of audiences. Guests learn about the animals and the pressing conservation issues that affect marine life.

Despite budget problems, the City of New York allocated \$2.6 million in capital funds toward construction of a snow leopard exhibit at Central Park Zoo. A large outcrop of Manhattan schist, planned for the area between the red pandas and the polar bears, will provide a natural resting place for these beautiful cats. As part of its animal enrichment program, Cen-





As part of a long-term project to develop local wild animal veterinary capacity at the Cuc Phuong Turtle Conservation Center in Vietnam, WCS Clinical Veterinarian Paul Calle (at far left, with Center Manager Mr. Bui Dang Phong and graduate student Tim McCormack) trained the center staff in health care techniques and procedures for chelonians (above, a jagged shelled turtle).

tral Park Zoo received the 2002 Rockefeller Center Christmas Tree. The trunk and branches were cut apart, hollowed out, and transformed into enrichment toys for hiding food, making tunnels, and nest cavities for zoo inhabitants.

The stars of the animal collection at the Queens Zoo were two orphaned puma cubs, Cleo and Felix, who came to the zoo from Montana at five weeks of age. They were the subject of a WCS Public Affairs division-generated AOL Internet contest, in which thousands of people logged onto the WCS website for the opportunity to name the cubs. Queens Zoo also welcomed two Scottish Highland cows, a gift from WCS Trustee Daniel

Thorne. Each of the females gave birth shortly after their arrival, creating an instant herd.

Planning continued at Queens Zoo on an exhibit for thick-billed parrots, funded by the New York City Department of Parks. The goal of “America’s Only Parrot” is to prepare rare and endangered birds for release into the wild and introduce visitors to the work of WCS field scientists. Queens Zoo Director Robin Dalton and Central Park Zoo Assistant Curator Yula Kapetenakos participated in research projects in Mexico to study these birds in their natural habitat. The zoo exhibit is scheduled to open in spring 2004.

Prospect Park Zoo’s newest wild inhabitants were jumping for joy that the zoo would remain open. Three western gray kangaroos from Australia joined their smaller cousins, the Parma and Bennett’s wallabies, on Discovery Trail in the zoo’s World of Animals exhibit.

Prospect Park also developed an interactive exhibit geared toward inquisitive elementary school students. Called In Living Color, the new display sheds light on how colors help animals—such as Gila monsters, lorikeets, and poison dart frogs—

find one another, send warning signals, or blend in with their surroundings.

At our offsite Wildlife Survival Center in Georgia, a new bird facility was affectionately named in honor of St. Catherines Island Foundation President and longtime WCS Trustee Frank “Yoke” Larkin. The new Yoke Aviary has 11 interconnected breeding yards, and it currently houses vulturine guinea fowl, crestless fireback pheasants, and buff-crested bustards.

The Wildlife Survival Center also celebrated the first captive hatching in North America of the blue-headed macaw. Our population is the only captive group in the United States. Little is known about this “mini-macaw,” which occurs in small, scattered groups in the western Amazon Basin, eastern Peru, and northwestern Bolivia. We are developing a program with field biologists in Peru to investigate the birds’ ecological requirements. And in late spring, the center became the first AZA institution to hatch the Burmese star tortoise, which has been designated one of the world’s top 25 most endangered turtles by the Turtle Conservation Fund due to the escalating demand to supply Asian food markets and the illegal pet trade.

The Wildlife Health Sciences department was saddened by the death of Si-Kwang (Sam) Liu, a WCS Scientific Fellow and a great friend. Sam began his long association with WCS in the late 1960s, contributing his time and expertise in pathology to the care of our living collections. One of Sam’s greatest contributions to wildlife was the role he played in the discovery that Vitamin E deficiency causes heart disease in zoo animals.

WCS Trustee Ann Unterberg stepped down this year from her position as chair of the Wildlife Health Sciences Committee. Her enthusiasm and commitment to the health needs of wildlife were a tremendous contribution to our efforts. To fill the void, Coty Sidnam and Pamela Thye, two longtime WCS committee members, became the new co-chairs. They are working closely with Chief Veterinarian and Vice President Bob Cook to infuse energy and commitment based on their knowledge of wildlife health matters.

The master plan for the Wildlife Health Center was completed this year, and includes designs for a new sterile surgery unit. A major facelift of the lighting and air-handling systems in the necropsy facility greatly improved working conditions.

Clinical Veterinarian Paul Calle—accompanied by John Behler, Bronx Zoo Herpetology Curator, and Henk Zwartevoorte from the Rotterdam Zoo—traveled to Vietnam’s Turtle Conservation Center (TCC) in Cuc Phuong National Park to train the staff in chelonian health care techniques and procedures. Behler provided valuable recommendations on turtle husbandry, management, and reproduction. The visit, which



Pay One Price

CONCERN FOR THE guest experience at the Living Institutions is second only to our concern for animal care. This year, in response to guest comments, WCS staff developed a ticket option for the Bronx Zoo called the Pay One Price (P.O.P.) Pass. Designed to provide our guests with an easier and more cost-effective way to enjoy their visit, P.O.P. combines a regular gate admission with a reduced rate for the zoo’s most popular attractions. Even if they purchased regular admission, guests can take advantage of the P.O.P. pass by buying a P.O.P. upgrade at the Bengali Express, Skyfari, Congo, or Zoo Shuttle.

Response to the Pay One Price program has been enthusiastic. Almost 45 percent of our paid attendance took advantage of the P.O.P. ticket, which is available from May through October.



WCS established the first zoo animal hospital in the United States in 1916. Today, WCS health care specialists care for a wide variety of wild animals at our Living Institutions (above, Chief Veterinarian Bob Cook (on the left) checks the eyes of a barasingha fawn with Bronx Zoo Primary Wild Animal Keeper Kris Theis). We also developed the world's first field veterinary program in 1990. Top: Field vets Billy Karesh and Marcela Uhart assess the health of penguins in the Falklands Islands (right, a king penguin).

was funded by a grant from the AZA Conservation Endowment Fund, was an initial step in a long-term program to develop Vietnamese staff capacity in the care of turtles housed at the TTC, which come from trade confiscations. The grant will provide training, equipment, medication, supplies, and more exchanges of personnel.

In the WCS field veterinary program, Marcela Uhart, Christine Fiorello, and Rodolfo Nallar monitored the health of jaguars, ocelots, jaguarundi, and pampas cats in the Bolivian Chaco, Madidi National Park, and the verdant hills of Argentina. In the Russian Far East, our veterinarians taught wildlife managers and biologists how to deal safely with “problem” tigers and bears, helping communities to live side by side with wildlife. The team’s success can be attributed to both WCS scientific expertise and Calvin Klein Obsession—the scent used to lure these felines into traps and one that piques the interest of our Tiger Mountain cats.

Working closely with our Government Affairs office, WCS Health Sciences kicked off a One Health policy program at the recent World Parks Congress in South Africa. Senior Policy Advisor Steve Osofsky and the team now has a platform for guiding decision-makers in local and foreign governments to ensure that wildlife, human, and livestock health are considered integral to conservation planning.

The Exhibits and Graphic Arts and Mammalogy departments were key players in ensuring that William Karesh and Patricia Reed could move through the dense Congo Basin forests undetected by western lowland gorillas and other wildlife. Special camouflage field gear—including HAZMAT suits—was used to study wildlife affected by the Ebola virus outbreak in central Africa.

In January, WCS veterinarians Bob Cook, Billy Karesh, and Marcela Uhart traveled to the Falkland Islands in the South Atlantic off Argentina. With Falklands Conservation and veterinary staff from the Falklands Department of Agriculture, they performed the first health assessments of black-browed albatross, gentoo penguins, and other seabirds. In addition, they helped solve the mystery of why thousands of seabirds were dying in the Falkland Islands—most likely a toxic algal bloom, better known as red tide.

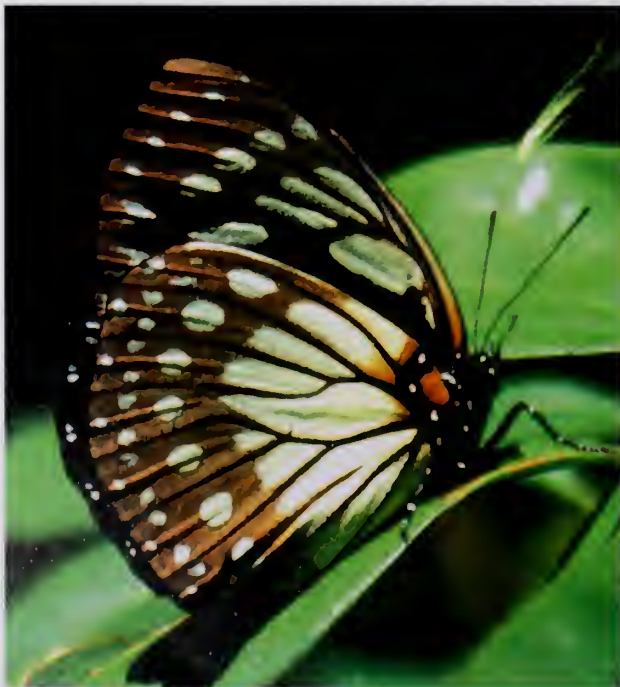
WCS Conservation and Science Program graduate student Michael Russello and Program Director George Amato conducted a genetics management workshop for the Division of Forestry in St. Vincent and the Grenadines. Living Institution scientists and Bronx Zoo ornithologists are assisting the government there in the management of the highly endangered St. Vincent Amazon parrot through improved husbandry and population genetics analysis. Amato and Russello also started a GPS-based monitoring program of the wild population. This is part of a collaborative program to integrate parrot conservation in the eastern Caribbean.

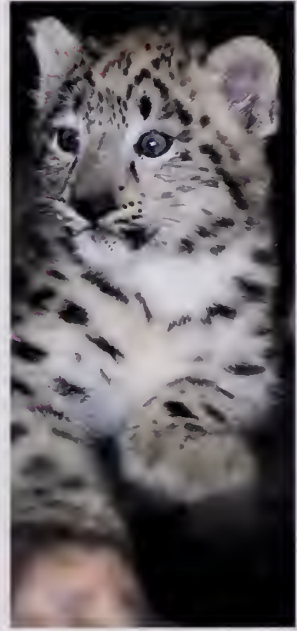


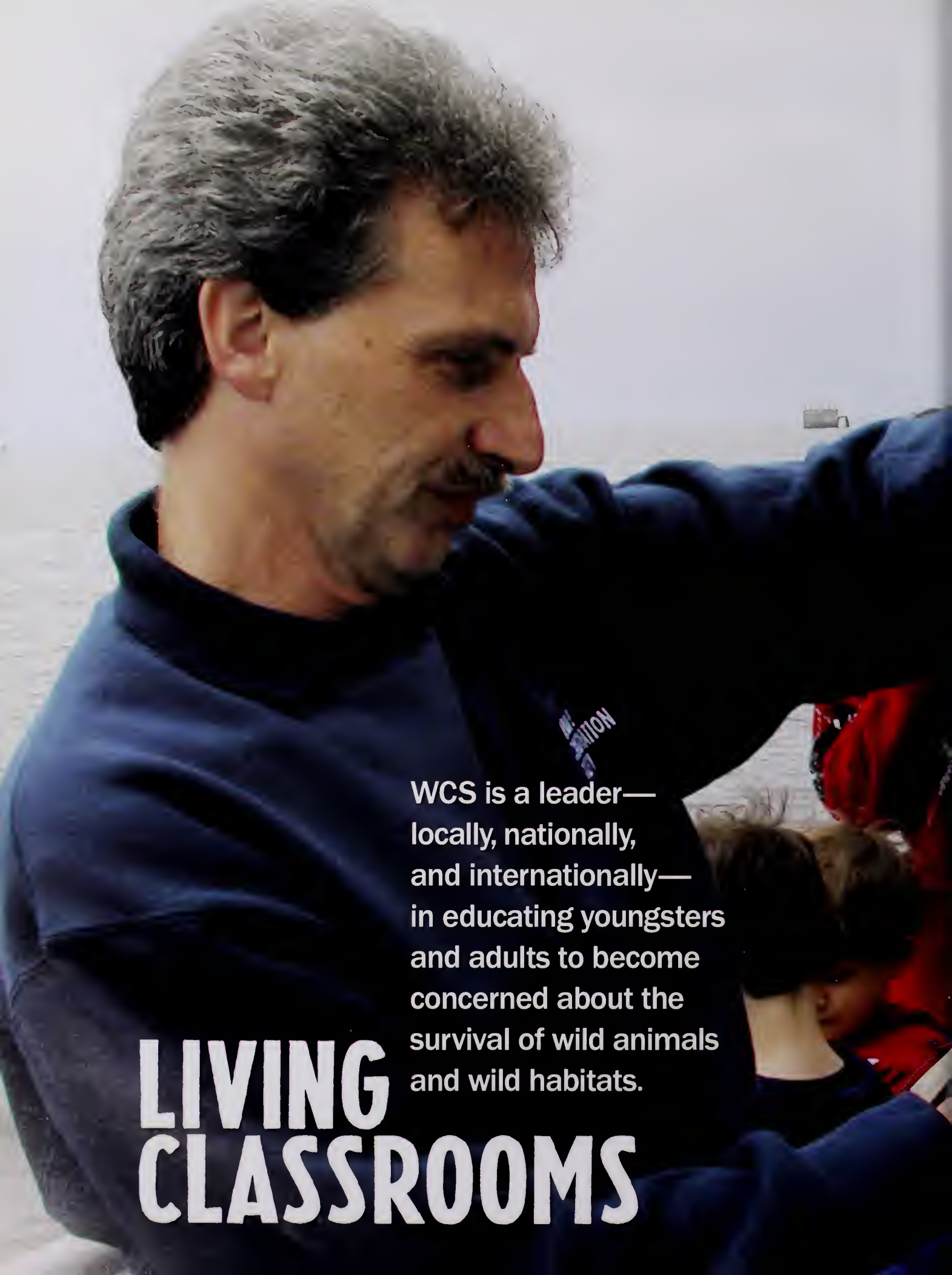


FOR MORE THAN 100 YEARS, WCS HAS SET THE standards for innovative exhibition, management, health, and welfare of living wild animals at the Bronx Zoo, the New York Aquarium, and the Central Park, Prospect Park, and Queens zoos. The first full-time zoo veterinarian in the United States was hired at the Bronx Zoo in 1902. Today, a skilled team of veterinarians and technicians care for more than 16,000 individual wild animals—from a newborn otter to a butterfly to a colorful lorikeet—at this unique metropolitan zoo and aquarium complex.

Conservation demands a global commitment in which wildlife and wild places are fundamental to life on Earth. Each year, WCS's Living Institutions in New York City—the Bronx Zoo, the New York Aquarium, and the Central Park, Prospect Park, and Queens zoos—connect with millions of visitors, inspiring them to care about the natural world through our magnificent animal ambassadors.







WCS is a leader—
locally, nationally,
and internationally—
in educating youngsters
and adults to become
concerned about the
survival of wild animals
and wild habitats.

LIVING CLASSROOMS





THE WCS EDUCATION DIVISION has an enduring commitment to our youth, which was recognized again this year with the coveted AZA Significant Achievement Award for the Bronx Zoo's Wildlife Science Careers Program. The award underscores the importance of involving the nation's youth in conservation activities.

Working with the National Science Foundation's Program for Gender Equity in Science, Math, Engineering, and Technology, we completed a four-year project in collaboration with the Girl Scout Council of Greater New York to promote interest and achievement in science among young women. Workshops served more than 2,000 girls, many from the inner city, and provided participants with behind-the-scenes access to professionals in animal care and management, education, exhibit design, field science, wildlife health, and wildlife science park support. A select group of the most highly committed young women served summer internships of 200 hours in the WCS Living Institutions, developing further insight into conservation related careers.

Our vision is to bring conservation education to the forefront of science education, affirming that a solid understanding of how nature works is the right of each high school graduate and an obligation of every citizen in a democracy.

Often, our most immediate impact is with teenagers. It is vital to imprint the impressionable minds of these soon-to-be adults with a respect for nature. This year, 24 Junior Zoo Guides, graduates of the 2002 Project IMAGINE, worked with the Bronx Zoo's Friends of Wildlife Conservation to disseminate conservation messages to zoo visitors. The program provided training in conservation biology and technology. Eighty-six percent of parents surveyed said their child's participation in this program positively contributed to improved performance in school and increased confidence.

Our enduring commitment to youth was evident in our Girls for Planet Earth program (above), which featured wildlife biology (right, Bronx Zoo ebony langur mother and baby). Pages 32-33: A New York Aquarium science at sea classroom explored marine ecosystems.

■ DR. ANNETTE BERKOVITS





WCS scientists imparted our conservation message in programs for general audiences on such topics as bushmeat and the trade in wildlife (above, a pitless pygmy chameleon in its native Tanzania; a variety of chameleon species are often sold in the exotic pet trade). At the Bronx Zoo's Project IMAGINE, young teens train as Junior Zoo Guides (left).

Bronx Zoo Education

Despite heightened security alerts that resulted in canceled school trips, more than 35,000 metro area schoolchildren attended conservation education programs at the Bronx Zoo. Our Science Jump Start programs included Pablo Python Looks at Animals (grades K through 3). Windows on Wildlife reached youngsters in grades 4 through 6. Junior-high and high-school students participated in Predators and Prey and Wildlife and People: A Living Landscapes Approach to Conservation.

As part of an ongoing relationship with The After School Corporation, 80 children who were enrolled in the Kips Bay Boys and Girls Club participated in programs based on the Bronx Zoo's H.E.L.P. (Habitat Ecology Learning Program) and Diversity of Lifestyles curricula. At the close of these programs, a group of eighth-graders hosted a Habitat Fair at their school in the Bronx.

The WCS conservation education message was imparted to general audiences with the help of WCS Senior Veterinarian Paul Calle in *Is There a Doctor in the House?* Calle explained how the WCS staff meets the daily veterinary needs of more than 16,000 animals in the WCS Living Institutions' four zoos and the aquarium. In *The Empty Forest Syndrome*, Elizabeth Bennett, an International Conservation Senior Conservation Zoologist, outlined WCS's efforts to control problems in the bushmeat and wildlife trade.

High-school students from throughout New York City earned elective science credit under the tutelage of zoo educators, scientists, and animal specialists in After School Adventures in Wildlife Science, supported by National Science Foundation. Through supervised, constructive activities, the students, many of whom fall in the underserved category, are encouraged to value science education and to consider careers in science, math, and/or technology as well as to become aware of and articulate in public policy issues regarding the environment.

Forty-two teenage girls from across the country came to the Bronx Zoo for the first Girls for Planet Earth "Earth Summit." Supported by a three-year grant from National Science Foundation, participants explored the fields of ecology and wildlife biology through the development of service-learning projects on key environmental issues in the United States and met with women science professionals.

Utilizing video-conferencing equipment, the Bronx Zoo Distance Learning Adventures more than doubled their reach in the second year. Three hundred programs were broadcast to 8,000 students in 100 cities in 19 of the United States and in Mexico. Via video cameras in Congo Gorilla Forest, western lowland gorillas Pattycake and her offspring Nyasha sparked heated discussions among students in Gorillas: Gentle Giants in Crisis. Students designed protection measures for wild gorillas that would involve local people in Africa.

The Bronx Zoo Friends of Wildlife Conservation (FOWC) staffed the “Choices” pavilion in the zoo’s Congo Gorilla Forest exhibit. These dedicated volunteers utilized their extensive knowledge of our western lowland gorillas to encourage visitors to contribute to the Pattycake Fund, which helped WCS reach its goal of raising \$250,000 to stop illegal hunting of gorillas in Africa. The FOWC also mobilized to collect petition signatures at the zoo during our S.O.S. (Save New York’s Zoos and Aquarium) campaign and gathered more than 10,000 signatures.

The annual FOWC Appreciation Dinner and Silent Auction celebrated the contribution of 39,270 hours of service by Bronx Zoo volunteers during the year. Thirty volunteers were recognized for service totaling a combined 425 years. Harriet Krasnoff and Sherry Udell clocked in at 30 years each; Mary Fitzpatrick and Sue Goldberg at 25 each.

New York Aquarium

At The New York Aquarium, high-school students in So You Want To Be a Marine Mammal Researcher were immersed in the complexities of animal behavior, learned observation techniques, and explored applied mathematics to conduct statistical analyses. Mentoring special needs young adults in interpretive skills at “touch-it” tanks won the Aquarium Education Department the National Institute of People with Disabilities “Volunteer Site of the Year” award. In addition, the Environmental Protection Agency recognized the Education Department with the annual “Environmental Quality Award.” Marine science education programming created waves with 41,000 participants from communities across the tri-state area.

The Marine Teens Docent program incorporates career awareness, conservation ethics, communication, leadership, and exhibit interpretation skills and techniques for more than 250 volunteers—frontline educators who enrich the aquarium visitors’ experience. At the Mid-Atlantic Center for Ocean Science Educational Excellence at Rutgers University, Aquarium instructors and docents were trained by Rutgers’ Marine and Coastal Sciences staff to deliver real-time information and research on water temperatures, coastal ecology, and striped bass migrations to aquarium visitors. Docents now display fish-tagging tech-



Project TRIPS

THE NATIONAL PROGRAM STAFF devised Project TRIPS (Teaching Revitalized Through Informal Programs in Science) to revolutionize the way informal science institutions (ISIs)—zoos, nature centers, aquariums, natural history museums—interact with one another and with school systems. Project TRIPS has trained teams of educators from across the United States to work with school administrators and teachers to enhance the way life science is taught to adolescents, thus increasing the relevance of ISIs to science education.

Project TRIPS is linked directly with the “National Science Education Standards,” and has enabled WCS to create a network of more than 50 ISI-school partnerships, has helped 2,500 middle-school teachers learn up-to-date life science content and instructional skills, and reached 45,000 students in five years. As a result, these schools have built strong collaborations with their local science institutions and realize that they are a vital education resource.



niques and discuss the benefits of documenting fish migrations and age/size correlations.

Now in its sixth year, the Upriver/Downriver program enlisted the Foxfire School and the Hudson River Museum in Yonkers to produce an illuminating exploration of concern for threatened watershed territories. The NY-NJ Harbor Estuary program of the EPA supported Project B.E.A.C.H. (Beach Ecology and Caring for Habitats) at Surfside School in Coney Island. We finished our third year of the Earth, Sea, and Sky program—a multidisciplinary immersion experience held with Brooklyn's McKinley Junior High School in earth science, oceanography, and marine biology.

Consistent with the New York City School Chancellor's initiatives to involve the family, teacher-training programs for PS. 225 in Rockaway culminated with "Sleep in the Deep," designed to reinforce marine biology principles in children and their parents. Similarly, with the support of Assemblywoman Adele Cohen, an Evening at the Aquarium, complete with science activity stations, hosted more than 700 family members and school staff.

Central Park Zoo

Central Park's multi-disciplinary programs incorporate theater, the visual arts, and science for children and adults. Dynamic actors promoted an understanding of nature by sharing animal and conservation facts with more than 550,000 zoo visitors. In

addition, more than 65,000 children and parents attended 2,000 performances at the Daniel Cowin Acorn Theater in the Tisch Children's Zoo.

The theater's outreach program introduced WILD (Wildlife Integrated for Language Development) Achievements to more than 1,600 New York City schoolchildren. By providing pre-readers with vocabulary building and text comprehension, this program fosters an appreciation and respect for wildlife in children who have limited experiences with wild nature. Additionally, more than 600 Bronx schoolchildren benefited from performances of WILD Achievements classroom programs and auditorium plays.

This year, the Central Park Zoo Guides, a cohort of 130 strong, provided 126,542 zoo visitors with 16,000 hours of volunteer service.

Prospect Park Zoo

Prospect Park Zoo's Education Department designed a new after-school program with the Maple Street School in Brooklyn. The Zoo Crew, more than a hundred students who ranged in age from five to nine, and 150 Tadpoles, ages two to four, explored the world of animals and nature and acquired an appreciation for their non-human neighbors. In March, 30 families from the Maple Street School crafted several types of enrichment items for zoo animals and learned about animal nutrition and behavior.

In partnership with Community School District 15, a pilot program incorporated "authentic learning" principles into the fifth-grade science class. Teachers learned elements of zoo collection planning and exhibit design; Christine Sheppard, Curator of Ornithology at the Bronx Zoo, explained the science of collection planning; and students studied exhibits so they could design a "new" zoo. The project culminated in two parent days, attended by more 300 families. Parents received information on how to bring their children to the zoo for an educational outing and each family was given a reference book on zoo animals.

Queens Zoo

More than 8,000 students and teachers attended programs and tours to learn about zoos, endangered animals, and conservation education. At the second annual Alternative Augmented Communication (AAC) picnic, 25 children and adults who are unable to speak used computerized decoding devices to learn and communicate about owls, alligators, bison, prairie dogs, and other animals.

As the fiscal year came to a close, it became evident that New York City's budget woes would dramatically affect the future of the Prospect Park Zoo and Queens Zoo education programs. The coming year will see major changes in programming and restructuring at these facilities.



Informal science institutions, such as the WCS zoos and aquarium, are not only places for fun days away from school. These institutions are centers of learning about the natural world—from penguins at the New York Aquarium (left) to butterflies at the Bronx Zoo (above and right).

National Teacher Education Program

Twelve hundred teachers from New York, Connecticut, South Dakota, Kansas, Ohio, Texas, Pennsylvania, Florida, Iowa, and Nebraska benefited from WCS teacher-training workshops during the year. In addition, teachers in Ottawa, Canada, and in Puerto Rico received training and curriculum materials.

Local outreach efforts focused on Long Island through teacher workshops that were conducted in Baldwin, Great Neck, and Hempstead, as well as new relationships formed with the Suffolk County Science Teachers' Association, Nassau BOCES, and the Danbury, Connecticut, school system. Collaboration with the New York Aquarium resulted in the first joint teacher workshops to disseminate the new *Elly Jelly Looks at Marine Animals* curriculum, in association with the *Alien Stingers* exhibit.

In its fifth year, Project TRIPS (Teaching Revitalized through Inquiry in Programs in Science) resulted in 53 partnerships for science education reform across the country. Project TRIPS pairs informal science institutions (ISIs) with middle-school administrators and teachers, sparking fresh approaches to science education and innovative collaborations using cur-



ricula developed at the Bronx Zoo. TRIPS teams have motivated not only teachers but entire school systems, in the face of drastic funding cuts, to increase their incorporation of informal science institutions and inquiry-based learning. In one South Dakota school district, all middle-school science teachers have been trained and are using WCS award-winning curricula. A school in Tampa rose from near the bottom to the top of the district by combining the WCS-developed HELP curriculum and visits to the Florida Aquarium and Busch Gar-



WCS's *Teachers for Tigers* manual, written in the three major languages of southern India, formed the basis for workshops to train educators in that country (above, a tiger in Nagarahole National Park). Left: Animal Kingdom campers prepare enrichment items for animals in the Bronx Zoo's Children's Zoo.

dens as reading motivation. Because of continuing contact rather than a one-day visit, TRIPS builds bridges between schools and informal science institutions, resulting in student appreciation for the informal science institution as a place of learning rather than just as a “fun day away from school.”

International Education Programs and Curriculum Development

WCS's *Teachers for Tigers* manuals—in Tamil, Kannada, and Malayalam, the three major languages of southern India—formed the basis for workshops at Project Tiger reserves in south India, at the Regional Museum of Natural History in

Mysore, and in Coimbatore and Chennai, in partnership with India's Zoo Outreach Organisation. Participants were drawn from communities that surround the reserves, and they included educators from nature reserves, schools, and zoos throughout India as well as Nepal and Bangladesh, training a total of more than 160 educators. For the first time, we are directly reaching young people who live in communities that are close to tigers and their habitats.

In May, Payal Bhojwani, founder of a small environmental education non-governmental organization in New Delhi, became WCS's first C.V. Starr Environmental Education Fellow from India. After completing the February workshop in Chennai, she spent two and a half weeks at the Bronx Zoo participating in the TRIPS workshop, attending school programs, presenting at a WCS trustees meeting of the Education and Exhibitions Committee, and consulting with a range of WCS staff. Bhojwani performed with flying colors, working with WCS staff to train more than 90 educators in the three workshop sites. Five additional C. V. Starr Environmental Education Fellows will visit New York in the coming year.

Our other major Asian project, in China, was put on hold due to the SARS virus and the political landscape.

The WCS-initiated environmental education program in Papua New Guinea continues to thrive independent of further financial support. Program managers opened education resource centers in two new states, and a new version of WCS's Pablo Python Looks at Animals, intended exclusively for Papua New Guinea, was completed.

Our partner, the Research and Conservation Foundation of Papua New Guinea, continues to disseminate WCS curricula through workshops for schoolteachers and semester-long classes at a local teachers college. The latest edition of "Ting Ting Long Mama Graun," the RCF/WCS newsletter for teachers, reports that 97 students have graduated from "Environment and Conservation in Melanesia."

In addition to HELP trainings, RCF has completed its first Pablo Python Looks at Animals workshop for 36 elementary teachers from Papua New Guinea's Eastern Highlands Province. RCF conducts monthly workshops for new teachers, and already trained teachers who use WCS curricula reunite frequently. In their two new Conservation Education Resource centers, the Pablo Python Looks at Animals video is a highlight of class visits. In August, WCS sent Lydia Dori, an education officer in the PNG program, to the International Zoo Educators Association biennial conference in Vienna.

Education programs and teacher-training workshops are also in development with the Munda Wangu Zoo in Lusaka, Zambia. The WCS International Conservation programs have long supported Conservation Zoologist Dale Lewis's work in Zambia, home to some of the most spectacular protected areas in Africa. Environmental education is critical to ensure the survival of Zambian wildlife.

Curriculum Development

Elly Jelly Looks at Marine Animals, a life-science curriculum for grades 1 through 3, made its debut during the year. The curriculum, which integrates reading and writing into the teaching of science, was awarded the New York Marine Education Association's Herman Melville Literary Award for Instructional Materials. The award, presented at the New York State Marine Educator's Association conference at Southampton College, had never been given for an early-grade program.

The first module of Wild Explorations, based on WCS Conservation Ecologist Joel Berger's studies of wolves and moose in Yellowstone, was tested in select local schools. Curriculum developers worked closely with WCS's North America and Landscape Ecology programs to development a second module covering Adirondacks landscape. Wild Explorations will bring the work of WCS scientists to schools nationwide.

We will also add a module focusing on the clean up and revitalization of one of our most important local resources, the Bronx River, which will be developed in concert with the new Riverwalk exhibit at the Bronx Zoo.

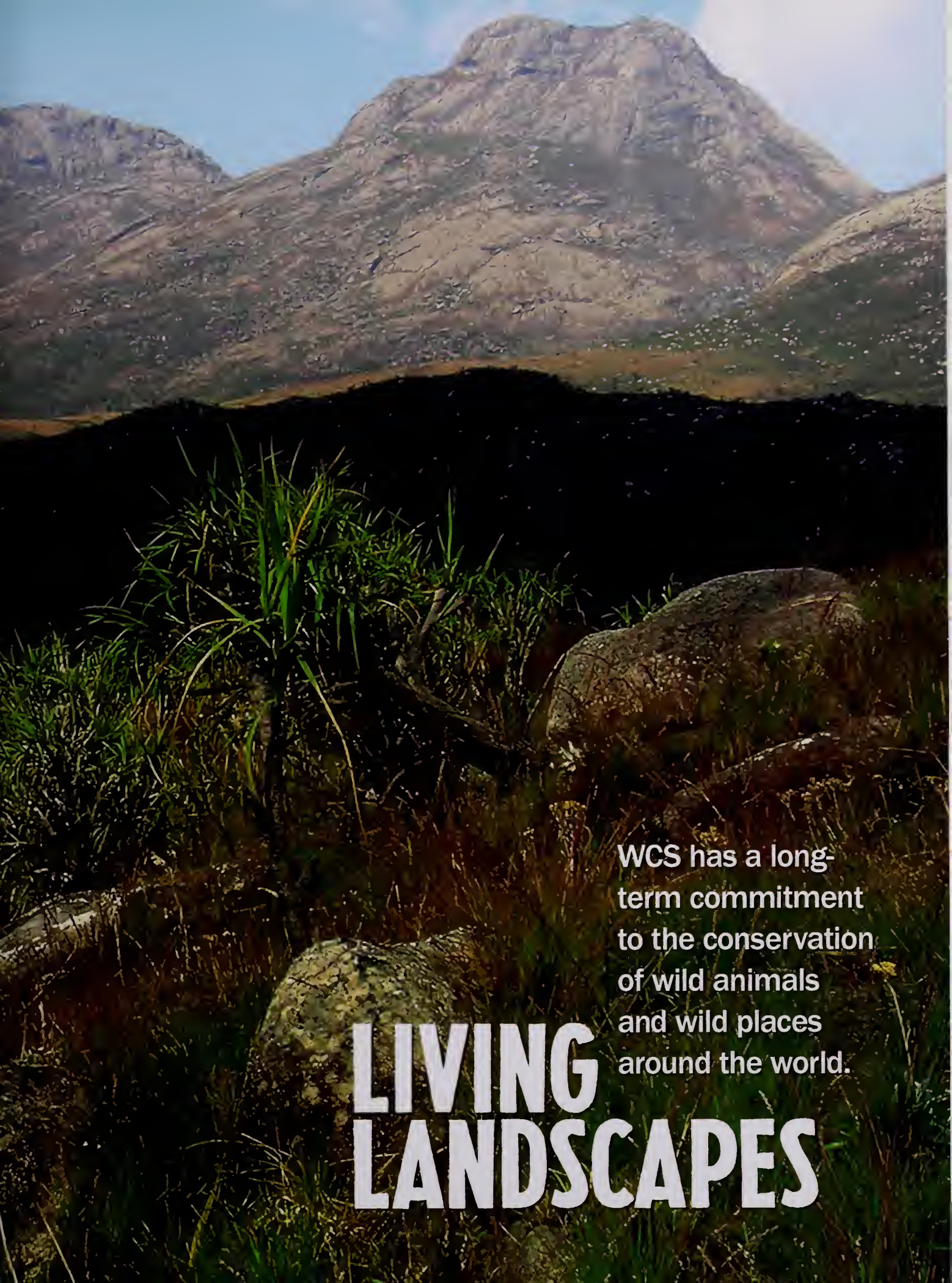


Teachers for Tigers

THE EDUCATION DIVISION'S international program brings an appreciation of nature, an awareness of ecological principles, and an understanding of conservation issues directly to schools, educators, and students in regions where WCS field scientists work and wildlife lives. Our formal environmental education programs outside the United States were launched in 1993 in China, the world's largest market for wildlife products, and shortly after that in Papua New Guinea, a center of remarkable biodiversity. These were the first education programs of their kind in the two countries.

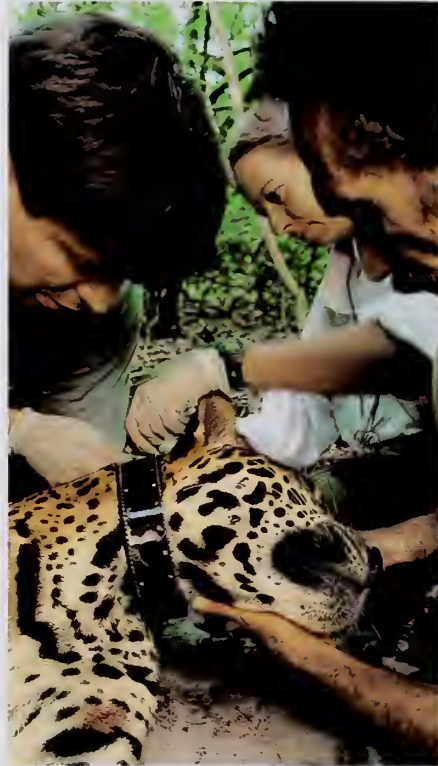
This year, in February and again in June, WCS Director of Curriculum Development Tom Naiman and International Teacher Trainer Nalini Mohan led workshops in India using our new curriculum "Teachers for Tigers." The manual has been translated into Tamil, Kannada, and Malayalam, the primary languages of south India, and will be translated into Hindi in the near future. Sally Walker and her team at Zoo Outreach Organisation coordinated the workshops and recruited the participants. More than 150 educators at protected areas, zoos, museums, and schools throughout India, as well as several from Bangladesh and one from Nepal, learned about native wild animals, observed elephant tracks, and took part in tiger poaching dramatizations. These participants have a combined impact of more than 100,000 people in a variety of audiences.





WCS has a long-term commitment to the conservation of wild animals and wild places around the world.

LIVING LANDSCAPES



OUR MISSION at the Wildlife Conservation Society is to save wildlife and wild places. We strive to inspire other people to save them, too, through science and education. Science might seem a strange place for

conservation to begin, but in today's turbulent times, most people do not have the time to know nature. It is mainly scientists who follow nature's daily progress and report back about how nature is faring. What happens to these scientists, though, soon surpasses the science; for what arises is a love, a joy, a passion for the natural world that goes beyond facts, figures, and assessments to become a lifelong commitment to educate, to inspire, to conserve—in short, to help others fulfill our keenly human role as stewards of the planet.

Being stewards of Earth at this point in history is no small task. A report released last year by a team of WCS conservationists and Columbia University researchers demonstrated that, if you add up all the places in which people live, work, turn on their lights, and drive their cars and trucks, the human footprint (see page 47) touches more than three-quarters—83 percent—of Earth's land surface. People influence almost all—98 percent—of the places where we can grow wheat, rice, and corn.

Of course, the human footprint is not evenly spread across the planet. In some places, such as in cities and metropolitan regions, it is intense; in other places, human influence is relatively light, perhaps only the occasional hunter straying from the road. But generally speaking, everywhere wildlife is, human beings are, and too often, the more people, the less wildlife. The exceptions to this rule are the hope for the future.

WCS is dedicated to preserving biodiversity in landscapes such as the mountains of southern Tanzania and Malawi (pages 42-43, with Tim Davenport). We are studying jaguars (right and top, with Sandra Cavalcanti) in much of their range from the southern U.S. to Argentina.

The Wildlife Conservation Society believes that it is not too late to save wildlife and wild places... that some of the greatest work in field conservation is yet to come.

■ DR. JOHN G. ROBINSON



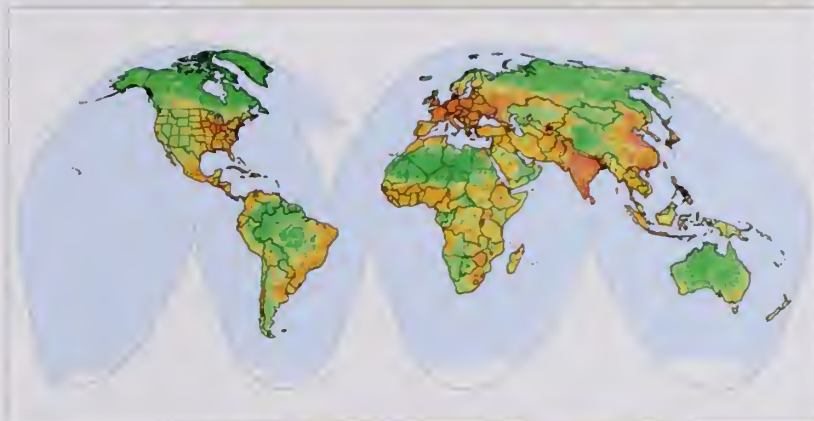


WCS scientists work across the breadth of Central Africa, from the east along the Albertine Rift, where we are censusing wildlife (such as these elephants, above) and monitoring loss of habitats, to the rich tropical forests of Cameroon, where Roger Fotso (left) oversees biodiversity studies and the trade in bushmeat.

Yet, if people are the problem, they are also the solution. If we are almost everywhere on the planet, we have a responsibility almost everywhere to preserve our natural heritage. Thus the achievements this year of the Wildlife Conservation Society are global achievements to help people realize our joint responsibility and act on it across the human footprint.

In an historic accomplishment, WCS scientists guided President Bongo of the Central African nation of Gabon as he created the first national park system in Gabon's history, consisting of 13 new parks to protect more than 11 percent of the country. In Bolivia, we helped indigenous people gain title to their traditional lands and conserve the integrity of 1,255 square miles immediately adjacent to Madidi National Park, often called the most biologically rich park in the world. In China, the world's most populous country, WCS conservationists documented that tigers know no political boundaries and cross from their Russia homeland into northern China. In North America, our Yellowstone program is planning conservation solutions that work not only in the national park, but extend to a larger "living landscape," working with partners on private lands. In the oceans, our programs make daily discoveries about coral reefs, dolphins, and fisheries.

The global extent of the human footprint suggests that, like it or not, we are the stewards of nature. If we recognize the breadth and extent of our responsibility, we will choose—as individuals, institutions, and governments—to moderate our influence in return for a healthier relationship with the natural world, on which we also depend. We need to reinterpret the colors of the human footprint (right), so that red signifies where nature is most nurtured and green where wildness thrives. It is possible, and necessary, to transform the human footprint and save the last of the wild.



■
WCS has worked since 1987 in one of Latin America's largest remaining wild places, the Bolivian Chaco landscape, which covers more than 20,000 square miles and includes the 13,127-square-mile Kaa-Iya del Gran Chaco National Park. The Chaco contains the largest expanses of dry tropical forest left in the world—a biome more threatened than moist tropical forests. It also includes extensive palm savannas, marshes, and grasslands. Endemic species include Chacoan guanaco, Chacoan peccary, Azara's night monkey, salt desert cavy, Chacoan naked tail armadillo, and Chacoan fairy armadillo. There are probably more jaguars here than in any other protected area in Latin America.

The major threat to the area and its wildlife has been the rapidly advancing agricultural frontier, which has converted much of the northern limits of the Chaco into soybean farms. The rapid expansion of Bolivia's hydrocarbon industry also threatens the ecosystem, and uncontrolled sport hunting poses a serious threat to some wildlife species.

Our main partner in the Chaco is CABI, an indigenous organization representing some 9,000 Guaraní people living in 25 communities. WCS's efforts include institutional strengthening of CABI, resolving land tenure problems, supporting community-based natural resource management, development and implementation of a protected area management plan and an environmental monitoring system, environmental education for local indigenous communities, and training Bolivian and international students.

In Central America, the Maya Biosphere Reserve (MBR) landscape in Guatemala is the largest and most intact portion of the Maya Forest, a tropical forest habitat extending from Guatemala into Belize and Mexico. At more than 7,720 square miles, the reserve is the largest contiguous block of tropical forest north of the Amazon and supports wide-ranging species that have been extirpated in many parts of Central America, such as jaguar, puma, white-lipped peccary, Baird's tapir, and scarlet macaw. In addition, beneath the canopy of this tropical moist forest lie hundreds of relic temples and towns of the ancient Maya civilization.

The Human Footprint

A TEAM OF scientists from WCS and Columbia University's Center for International Earth Science Information Network produced this comprehensive map of the world, showing how humans directly influence more than three quarters of Earth's landmass (tan to black). The map adds together influences from population density, access from roads and waterways, electrical power infrastructure, and land transformation such as urbanization and agricultural use. It reveals that 83 percent of the land surface is under human influence, while a staggering 98 percent of the area where it is possible to grow rice, wheat, or maize is directly influenced by human beings. At the same time, wide swaths of land remain wild (green). Called the Last of the Wild, these areas are opportunities for conservation of wild places all over the world.

"The two lessons of the human footprint are these: We need to conserve the last of the wild because they are places where all the parts of nature are more likely to remain, and where conflicts with human infrastructure are least; and we need to transform the human footprint, so nature can still be nurtured everywhere, including in more heavily influenced areas," says Eric Sanderson, WCS Landscape Ecologist. "We can do both. Nature is often resilient, if given half a chance."



Keyt Fischer

CONSERVATION SCIENTIST Keyt Fischer has been working in our North America Program since 2002. She currently directs research on forest diseases and wildlife conservation, including Sudden Oak Death syndrome in California.

Keyt began her association with WCS in the 1970s, when she left her native California to study humpback whales in Hawaii. She earned her PhD in biology and anthropology at Harvard, researching rainforest canopy ecology and seed dispersal in the remote mountains of Papua New Guinea, where she was partially funded by a grant from the WCS Asia Program. While in Papua New Guinea, Keyt worked with local villagers and two mining companies to establish a wildlife management area and research station on Mount Stolle. After completing her PhD, Keyt conducted a marine survey of Lambi Island, Myanmar, at the request of WCS Director for Science and Exploration Alan Rabinowitz. Based on the survey data, Keyt wrote the management plan for the Mergui Archipelago, which also recommended ways to protect the interests of the Salon people, who have lived in the area for centuries.

Threats to the Maya reserve range from indirect forces such as governmental instability, poverty, and population increase to the more direct threats of illegal hunting and overexploitation of valuable non-timber forest products. Settlers entering the reserve illegally clear land for agriculture and set forest fires, causing great devastation.

By involving local inhabitants in natural resource management, WCS has successfully combined conserving biodiversity with improving the livelihoods of the people. Our projects with Guatemalan NGOs and government agencies have focused on conservation planning, applied wildlife research, training of local biologists and parabiologists, building capacity in local NGOs, and community-based resource management. We have organized biodiversity and monitoring workshops, and contributed to the master plans for both the Maya Biosphere Reserve and Tikal National Park, a World Heritage Site.

In East Africa, the Albertine Rift stretches through six countries, from the northern end of Lake Albert in Uganda to the southern end of Lake Tanganyika in Zambia. It encompasses forests, savannas, wetlands, and mountains. Fifty-two percent of Africa's bird species and 39 percent of all continental African mammals, such as the mountain gorilla and the Virunga golden monkey, can be found here. The area is a key attraction for ecotourism but has suffered severely from recent civil wars and increasing population density.

WCS is pursuing three main goals in the Albertine Rift: The first is providing science-based information for management and conservation decisions, including monitoring and detailed studies of threatened species. WCS scientists have completed the first census of chimpanzees and threatened species, such as the endemic Grauer's rush warbler in Uganda. We have monitored forest loss with the help of satellite imagery and prepared education and support programs for African nationals who work as scientists and park wardens. The second goal is collaboration with partner organizations and local institutions, based in part on an assessment of the region as an integrated landscape in which key connections must be maintained and threats addressed. And the third goal is long-term financial support for basic operating costs, planning, training, monitoring, research, and management in Nyungwe, Virunga, Bwindi, and Kahuzi Biega national parks.

The world's fourth largest island, Madagascar is a global conservation priority due to its combination of biological diversity, extreme poverty, and rapid rate of environmental degradation. Antongil Bay in northeastern Madagascar stands out for its biodiversity, encompassing marine, coastal, and forest habitats, and including Madagascar's largest protected area, Ma-



WCS presence in the Arctic Coastal Plain in Alaska dates back to the 1960s. Today, we are still working to conserve this icon of American wilderness and to understand how human activities affect shorebirds (above, a pectoral sandpiper; right, Joe Liebezeit determines the age of developing eggs via the floatation method—as eggs age, they tip upward and eventually float on the surface).

soala National Park. This landscape includes the last great wilderness in Madagascar with the largest remaining tract of pristine eastern rainforest, more than 50 percent of Madagascar's forest biodiversity and over 1 percent of global biodiversity. Within this landscape, the Makira Conservation Reserve, which WCS is instrumental in developing, will become the country's largest protected area at over 1,150 square miles. Together, Masoala, Makira, and their buffer zones represent about 3,475 square miles and more than 10 percent of the remaining forests. The region contains 13 species of lemurs and the rare serpent eagle, which requires a large area of forest to survive. Antongil Bay itself is the largest sheltered bay in Madagascar and the most significant breeding, calving, and nursing grounds for humpback whales in the East Indian Ocean. As many as 13 species of sharks inhabit bay waters, and recent WCS studies show that four of these species use the bay as a breeding and nursery area. Many species of rays as well as the regionally threatened sawfish are also encountered.

WCS is taking an innovative approach with an integrated



program of conservation activities throughout the Antongil landscape, which recognizes the ecological and economic links between the terrestrial and marine ecosystems. The most important linkages are the need for sound forest conservation to protect Antongil Bay's marine resources and the opportunity to use these marine resources as an economic development option to reduce pressure on the forests. The WCS Marine, Conservation Finance, and Africa programs are working with local and national partners on protected area manage-



Our work in northeastern Madagascar encompasses marine, coastal, and forest habitats, including Madagascar's largest protected land area, Masoala National Park, and Antongil Bay, where Howard Rosenbaum and his team are studying humpback whales (left) and the entire marine ecosystem (above, a spinner dolphin).

ment, community-based natural resource management, research and training programs, sustainable finance mechanisms, and development of forest and fisheries conservation policies in Madagascar.

In the minds of most Americans, the Greater Yellowstone area, encompassing Yellowstone National Park and surrounding public and private lands, represents one of the best-known last wild places in the lower 48 states. While the region remains home to all of the native large mammals that

roamed the Rocky Mountains before Europeans arrived, the human footprint there, in the form of expanding towns, rural ranchettes, grazing, logging, and backcountry recreation, are fracturing this fragile landscape.

The Greater Yellowstone Program is addressing human impacts through both field research on sensitive wildlife species and action to limit these impacts. WCS projects range from ensuring that predators remain a functional part of the landscape to working with communities to help the people live compatibly with wildlife.

One issue of particular importance is habitat connectivity. WCS researchers are trying to ensure that the pronghorn antelope migration corridor remains open, because it is critical to maintaining these antelope in Grand Teton National Park. Likewise, understanding where and why bottlenecks stop large carnivores from moving between wild areas in Greater Yellowstone and Idaho is vital to maintaining enhanced landscape connectivity.

The vast Arctic Coastal Plain is another icon of American wilderness. It is characterized by seemingly unending expanses of untouched tundra traversed by abundant wildlife. Each

spring, shorebirds arrive to raise their young, flying from as far as Africa, South America, and Asia. While much of this area is still undeveloped, the faintest footprint of human development can profoundly affect this fragile Arctic ecosystem and its wildlife. Even the smallest drilling structure can provide nesting and perching sites for ravens and predatory gulls that may affect shorebird breeding. With many shorebird populations around the world on the decline, this negative impact is important to consider in any further expansion of human activities here.

The Wildlife Conservation Society has a long commitment to conservation in the region, including funding surveys that led to the creation of the Arctic National Wildlife Refuge in 1960. More recently, with partners ranging from oil companies and the U. S. Fish and Wildlife Service to other biologists, WCS designed and initiated a long-term study to understand how human activities are affecting shorebirds.



Over the past year, the plight of the world's marine wildlife has become increasingly clear. The oceans were long thought to be a limitless resource, but it is now widely recognized that the human footprint—in this case fishing, pollution, global climate change, and coastal development—extends well past the beach and deep into the ocean. More than two billion people live within 150 miles of the world's coasts, yet just one percent of the ocean has been set aside for conservation. WCS's strategy relies on site-based conservation programs, targeted research, and informed policy advocacy to save wild seascapes and the spectacular marine animals that depend upon them.

One of our most ambitious and far-reaching marine projects is the conservation of the open ocean in the southwestern Atlantic. The long, shallow continental shelf and deep oceanic waters that lie off the coast of Argentina's Patagonia are home to southern elephant seals, wandering albatrosses, southern right whales, Magellanic, rockhopper and king penguins, southern sea lions, and South American and subantarctic fur seals, and many species of fish congregate in these cold, deep, nutrient-rich waters. Yet this great abundance of marine life also attracts fishing vessels, including the world's largest squid fishery—a fishery so intense that the lights of its thousands of vessels can be seen at night from space.

WCS is leading a team of international scientific experts in an effort to save this magnificent ecosystem through creation of the Park of Sea and Sky. Drawing on the strengths of field scientists in WCS's Marine and Latin America programs as well as landscape ecologists in the WCS Wildlife Institute, the Sea and Sky Project is a grand vision that draws on years of field data collected by WCS scientists along the Patagonian



Claudio Campagna

A NATIVE OF Argentina, Claudio Campagna has been a WCS field scientist for nearly 25 years. He first began observing marine wildlife in Patagonia while still in medical school. After becoming an MD, Claudio obtained a PhD in biology to pursue his lifelong passion for studying animal behavior. His work with elephant seals, sea lions, orcas, endangered right whales, and other marine wildlife brought to light the magnificent biodiversity along Patagonia's 2,000 miles of rugged Atlantic coastline.

In his current capacity as a conservation zoologist in the WCS Latin America Program and a tenured biologist for the National Research Council of Argentina (CONICET), Claudio has taken on his greatest challenge. During the past two years, he has convened more than 30 researchers from the United Kingdom, Australia, the United States, South Africa, and the Falkland/Malvinas Islands to launch the Sea and Sky Initiative—an ambitious plan to protect the Patagonian marine ecosystem. A visionary and innovative leader, Claudio has shown an ability to link the progressive conceptual framework of Sea and Sky with hands-on conservation, setting in motion the sustainable management of an enormous, 800,000-square-mile oceanscape.



Banak Gamui

THE WCS PAPUA New Guinea Program, with support from The Christensen Fund and the MacArthur Foundation, has trained dozens of students in the fundamentals of field ecology and conservation. While working with WCS staff on biodiversity surveys, Banak Gamui developed a study, which will also serve as his honors thesis at the University of PNG, of the annual cycle of a montane rain forest at the Mekil Research Station, which was founded by WCS in central New Guinea almost a decade ago. Banak has trained a team of local landowners to collect data on bird activity; leaf, flower, and fruit production; insect populations; and climatological variables to decipher what cues guide the reproductive cycles of birds. This work will also provide some of the first systematic data from PNG on growth and productivity in a montane rain forest—critical to assessing forests as carbon sinks, a topic of growing importance as the world grapples for ways to buffer global climate change.

A passionate and dedicated conservationist, Banak sees the skills and knowledge he is mastering as keys to developing sound policies for the conservation of natural resources and to working with local communities, which have direct tenure rights over land and thus are stewards of Papua New Guinea's precious natural heritage.

coastline, as well as the input of stakeholders from Argentina, the Falkland Islands, the United Kingdom, Australia, and New Zealand. The result is a dynamic vision that calls for international cooperation to save an area of outstanding regional and global significance.

At the opposite end of the marine spectrum, a canopy of green forest and palms shades the workspace, and crystal blue water mirrors the emerald foliage. Beneath a small boat, a blizzard of multicolored fish drifts above a labyrinth of coral. It is just another day at the office for WCS's Asia Coral Reef project team. This team recently concluded an ambitious two-year investigation into the status of coral reefs across Papua New Guinea and Indonesia. The task was to investigate how the coral reef ecosystems in the Indo-Pacific—the global center for coral diversity—respond to local and global stresses, and to identify what kind of conservation and management investments will sustain their diversity and productivity. Early results suggest that traditional, village-based management systems have conserved reef resources very effectively, allowing villages to have a reliable supply of the fish while preserving ecosystem function and diversity.

During the next two years, the team will work at other sites in Papua New Guinea, Indonesia, and Fiji to refine a vision for coral reef stewardship and conservation that people of the region can use and tailor to their own areas.

Since 1993, when WCS became the first international non-governmental organization to initiate a conservation program in the Union of Myanmar, our Asia Program has worked with the Burmese to increase the extent of parks and reserves. Since then, Myanmar has expanded the land area devoted to conservation from 0.5 percent of the land surface to nearly 5 percent of the country.

WCS field conservationists and Myanmar Forestry Department staff have surveyed some of the country's most pristine and isolated forests in the region. Hukaung Valley stands out among these areas for its healthy populations of threatened wildlife, including a species new to science, the leaf deer, which was discovered in 1996. As a result of these surveys, 2,600 square miles were gazetted as the Hukaung Valley Wildlife Sanctuary in 2000, the country's largest protected area. Currently, efforts are under way to expand this sanctuary into the Hukaung Valley Tiger Reserve which, when created, will be the largest tiger reserve in the world, spanning an area of nearly 5,500 square miles.

For two decades, the WCS India Program has been working toward better protection and management for wildlife reserves in the state of Karnataka. Focusing on prime tiger habitat in the Western Ghats, WCS has concentrated on four major parks: Nagarhole, Bhadra, Kudremukh, and Bandipur. The Karnataka Tiger Conservation Project, which ended recently, set a new



WCS is the only conservation organization studying tigers (above) in all the countries in which they occur. One of the methods we use to identify and count these big cats is the camera trap (right, Chantavy Vongkhamheng adjusts camera trap apparatus to focus at tiger height along a wildlife trail in Laos).

standard for public/private cooperation. Project components include strengthening protection infrastructure of the four reserves through donation of vehicles, patrol boats, and communication equipment; building local capacity through training; improving morale of field staff through incentives, rewards, and welfare schemes; and monitoring biological populations through well-established techniques.

WCS and its conservation partners have also facilitated voluntary resettlement projects in three of the reserves. This year, 800 human settlers moved out of Bhadra Tiger Reserve to new, and better, homes and livelihoods. WCS also initiated outright purchase of critical in-holdings, privately held parcels of land inside Kudremukh National Park. Using such innovative approaches, the WCS India Program has helped reduce human-tiger conflict and improve the lives of humans, tigers, and the wildlife of the Western Ghats.

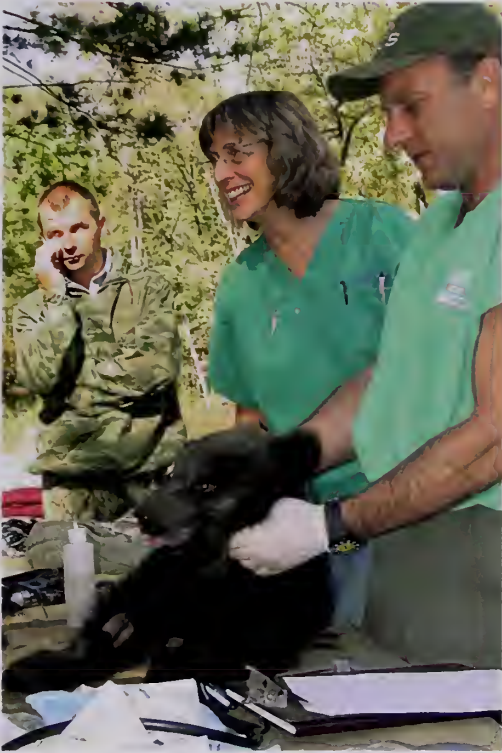


SCIENCE AT WORK



THE WILDLIFE CONSERVATION SOCIETY IS A global leader in the conservation movement. Through the International Conservation Programs, WCS has helped establish more than 120 protected areas covering more than 130 million acres of vital landscapes in Africa, Asia, Latin America, and the United States. In 1907, WCS began its conservation work by restoring the first bison to the American plains. Our North America Program continues to tackle conservation challenges from the Greater Yellowstone landscape, to the vast Arctic National Wildlife Refuge in Alaska, to migratory birds that use our coasts to rest and refuel during their journeys.





Red Knots and Horseshoe Crabs

WITH HELP FROM the Wildlife Conservation Society, the New Jersey Division of Fish and Wildlife has confirmed the decline of Delaware Bay's horseshoe crabs and the shorebirds, such as the red knot, that depend upon them. These findings led the states of New Jersey and Delaware to institute a moratorium on horseshoe crab harvests during mating season and a 50 percent reduction in harvests outside the mating season. This year, the National Marine Fisheries Service also created a 1,500-square-mile horseshoe crab sanctuary off the mouth of the Delaware Bay.



Spectacular Grouper Aggregations Protected By Law In Belize

IN NOVEMBER 2002, the Government of Belize signed legislation to protect the Nassau grouper, a commercially valuable reef fish known for its spectacular spawning ritual. This legislation represents the culmination of years of scientific research sponsored by the Wildlife Conservation Society. The action halts fishing in 11 known offshore spawning areas where, historically, thousands of groupers congregated at specific locations under a winter full moon to spawn. For the past three years, scientists from WCS and the Scripps Institution of Oceanography have studied this spawning phenomenon at Glover's Reef, a World Heritage Site where WCS maintains a research station. Our field scientists have documented a population decline of Nassau groupers at Glover's Reef of more than 80 percent since the late 1970s. Using this information, WCS led a coalition of national and interna-

tional organizations that successfully made the case for grouper conservation to the government of Belize. While this is a huge step forward, much work remains to be done. WCS scientists will build on the great success of this year and help set the stage for the return of abundant Nassau grouper populations to Belize.

The goal is to achieve economic stability and sustainable development by tackling the root causes of biodiversity loss in this critical area through field-based activities, legislative efforts, regional networking, and community-based programs. Strategies focus on region-wide priority setting, sustainable forestry practices, protected area management, and science-based conservation. The approach is wide-ranging, and calls upon experts in biology and socio-economics from around the world.



FROM BISON ON THE AMERICAN PLAINS TO CHEETAHS on the African savannas to groupers in Caribbean waters, WCS works to conserve the world's remaining wildlife spectacles. In 1916, we established the first tropical field research station in what is now Guyana. Today, we employ hundreds of international, national, and local scientists in more than 250 field projects in over 50 countries and the marine realm. The long-term commitment of our conservationists often offers the last, best hope for hundreds of species.



SCIENCE AT WORK



WCS'S FIRST FIELD SCIENTIST, WILLIAM BEEBE, visited 20 Asian countries from 1909 to 1911 to complete the first comprehensive study of the pheasant. Today, WCS is the only conservation organization working to protect all four gorilla subspecies in Africa. In 1911, then Director William Hornaday was successful in gaining passage of the first act to prohibit the sale of wild North American game in New York. More recently, WCS's commitment to conserving wildlife led to the first government plan, the Wildlife Master Plan for Sarawak, for managing subsistence and commercial hunting of wildlife across an entire state. In 1962, WCS donated the Jackson Hole Park to the U.S. National Parks Service for inclusion in Grand Teton National Park. In 2002, WCS played a major role in Gabon's historic establishment of its national park system.

Chinese Alligator Release

WCS HAS BEEN working since 1997 with China's State Forestry Administration in Beijing, the wildlife authorities in Anhui Province, and East China Normal University (ECNU) in Shanghai to develop conservation strategies for the last wild individuals of the critically endangered Chinese alligator. In April, WCS staff from the Living Institutions and International Conservation divisions, along with Wang Xiaoming from ECNU and a group of Chinese colleagues, conducted the first trial release of alligators at a site in southern Anhui Province.

ECNU students are monitoring these animals via radio-telemetry. To plan future reintroductions and conservation efforts, WCS staff will continue to collaborate with Dr. Wu Xiaobing of Anhui Normal University to genetically evaluate Chinese alligators in breeding centers in the United States and China.





Congo Basin Forest Partnership

SIXTY MILLION PEOPLE depend on the rich tropical forests of the Congo Basin, and this globally significant watershed is home to unique large mammals such as elephants, leopards, mandrills, gorillas, chimpanzees, and bonobos. Inspired by Mike Fay's Central African "Megatransect," U.S. Secretary of State Colin Powell launched the Congo Basin Forest Partnership at the World Summit for Sustainable Development in Johannesburg in 2002. WCS—in partnership with the governments of six African countries, several NGOs, and the U.S.-sponsored Central African Regional Program for the Environment (CARPE)—is channeling \$36 million in funds over three years (2003 through 2006) to conserve forests and other biological resources in the region.

The goal is to achieve economic stability and sustainable development through field-based activities, legislative efforts, regional networking, and community-based programs that tackle the root causes of biodiversity loss in this critical area, such as unsustainable hunting and wildlife trade. Strategies focus on region-wide priority setting, sustainable forestry practices, protected area management, and science-based conservation. The approach is wide-ranging and calls on experts in biology and socio-economics from around the world.



WILDLIFE CONSERVATION PROJECTS



WCS is the only conservation organization working to protect all four gorilla subspecies (above, a mountain gorilla in Rwanda).

Africa

CAMEROON

Conservation and community participation in Banyang-Mbo Forest Reserve
Survey and priority-setting in the highlands of Cameroon and Nigeria

CENTRAL AFRICAN REPUBLIC

Dzanga forest elephant demographics and social dynamics
Forest elephant population analysis for Central Africa

CONGO REPUBLIC

Nouabalé-Ndoki Project
Nouabalé-Ndoki buffer zone management
Conservation of Konkouati National Park
Conservation of Lac Télé ecosystems

DEMOCRATIC REPUBLIC OF CONGO

Conservation of Salonga National Park
Conservation of Okapi Reserve
Conservation of Kahuzi Biega National Park
Kinshasa, establish a national office and develop a conservation database with local collaborators

GABON

Establishment of National Parks for Government of Gabon
Conservation of Lopé National Park
Protection of Langoué Bai from logging, new National Park
Cetacean research of coastal Gabon
Conservation training

IVORY COAST

West African manatee conservation and awareness education program

KENYA

African Conservation Centre (ACC) - development of a national NGO
Conservation of large carnivores in livestock areas

MADAGASCAR

Masoala National Park management and ecotourism development
Development of a nationwide biodiversity database ("rebioma")
Development of a new protected area in Makira Plateau

RWANDA

Nyungwe forest conservation: ecotourism, education, inventory and monitoring

TANZANIA

Biodiversity assessment and the development of professional

capacity in Tanzanian National Parks Ecology Department
The effect of poaching on elephant social systems, Tarangire National Park
Tanzanian cheetah conservation program, a survey of the distribution and status of cheetahs in Tanzania
Conservation of the Southern Tanzania Highlands

UGANDA

Management of the Institute of Tropical Forest Conservation at Bwindi Impenetrable Forest

ZAMBIA

Community-based training and land-use planning/ADMADDE

ZIMBABWE

The ecology and deterrence of crop-raiding elephants

REGIONAL

Conservation of the forests of the Albertine Rift
Development of elephant monitoring system in the Congo Basin for CITES, MIKE Program
Status of gorillas, other primates and forests in eastern Nigeria and western Cameroon

Asia

CAMBODIA

Southern Monduliri forest biodiversity conservation project
Conservation Areas Through Landscape Management in the Northern Plains of Cambodia (CALM)

CHINA

Asian Conservation Communication Program (ACCP)
Monitoring tiger populations in Heilongjian and Jilin Provinces

INDIA

All India tiger surveys
Community leadership for tiger conservation, Karnataka

INDONESIA

CANOPI (Conservation Action and Network Program, Indonesia) in the Bukit Barisan Selatan Landscape
Management of protected areas in Sulawesi

IRAN

Conservation of the Asiatic cheetah, its natural habitat, and associated biota

KAZAKHSTAN

Status and conservation of vultures in Southeastern Kazakhstan

LAOS

Bolikhamayax ecosystem and wildlife conservation project
Conservation and public awareness raising in Laos

MALAYSIA

Implementation of the Review of the Sarawak Wildlife Master Plan

MONGOLIA

The eastern steppe living landscape: Sustaining wildlife and traditional livelihoods in the arid grasslands of Mongolia

MYANMAR

Establishment of a tiger reserve in Hukuang Valley region of Northern Myanmar
Northern Forest Complex (NFC) Landscape Project

PAPUA NEW GUINEA

PNG biologist training for field

techniques, project design, data analysis, and report writing

PHILIPPINES

Bat survey

RUSSIA

Siberian Tiger Project
Managing hunting leases for effective wildlife/tiger conservation in Primorski Krai

SOUTH PACIFIC

Conservation requirements of the masked shining parrot of Viti Levu, Fiji, and implications for forest reserve design
Conservation requirements of the Fijian giant longhorn beetles

THAILAND

Wildlife field research and conservation training program
Tiger and Sumatran rhino conservation Kaeng Krachan National Park

Latin America

ARGENTINA

Patagonia coastal zone conservation strategies
Sea and Sky: A strategy for the conservation of open ocean biodiversity in the SW Atlantic
Seabird ecology and conservation in Patagonia
Patagonian steppe wildlife conservation initiative

BELIZE

Wildlife research and protected areas planning in tropical forests

BOLIVIA

Conservation and protected area management in the Bolivian Chaco
Biodiversity research and conservation in the Madidi Landscape
Conservation training and capacity building (Noel Kempff Mercado Natural History Museum)
Andean mammals research and training in Cotapata National Park

BRAZIL

Mamirauá - Amanã Sustainable Development Reserve management and conservation
Livestock depredation by jaguars and pumas in Southern Pantanal, Brazil.
Landscape species conservation and planning in the Pantanal

CHILE

Conservation and research program for Bernardo O'Higgins National Park
Juan Fernandez Islands sea bird conservation and research

COLOMBIA

Ecology and conservation of biological diversity in the Central Andes of Colombia

COSTA RICA

Jaguar research and conservation

CUBA

Reptile research and conservation in coastal habitats

ECUADOR

Biodiversity research and conservation in the Yasuni landscape

GUATEMALA

Community-based conservation and biodiversity monitoring in the Maya Forest

PERU

Sustainable use and management of the vicuna
Wildlife conservation in the Peruvian Amazon of Loreto

REGIONAL

Jaguar conservation program
Flamingo ecology and conservation

VENEZUELA

Conservation of the Caura River watershed
Ecology and habitat use of spectacled bears

Marine

ARGENTINA

Developing co-management approaches for coastal fisheries of Patagonia

BAHAMAS

Provide scientific and technical support to establish the first five marine reserves of a planned nation-wide network in the Bahamas

BELIZE

Development of monitoring techniques for marine reserves and an atoll monitoring program for Glover's Reef and population assessment of lobster and conch
Glovers Reef Marine Research Station (GRMRS)
Coral reef and algae population dynamics and reef restoration: understanding the influence of nutrients and organic matter on reef erosion and algal growth
An evaluation of Caribbean shark species
Conservation of Nassau grouper spawning aggregations
Regional marine conservation and policy development

CHILE

Blue whale ecology and

conservation in coastal productive areas off Chile

HONG KONG

Trade in shark fins: impacts on the shark populations and the implications for shark fishery management

INDONESIA

Rebuilding effective marine management at Karimunjawa National Park

KENYA

Integration of adaptive management techniques into Kenya's marine reserve management system
Coral reef conservation

MADAGASCAR

Development of an Integrated Coastal Zone Management Plan for Antongil Bay, Madagascar

NICARAGUA

Marine turtle conservation off the Caribbean coast of Nicaragua

NORTH AMERICA

Conservation of green sturgeon in the Rogue River, Oregon
Conservation and restoration of salmon ecosystems and wildlife of the North Pacific Rim

PANAMA

Ecology and migration of Bocas del Toro sea turtles

RUSSIA

Identification of critical habitat and assistance in the development of protected areas for endangered Sakhalin sturgeon in the Tumnin River

SOUTH AFRICA

Ecology and conservation of the great white shark

REGIONAL

Training for South Asian scientists and an assessment of coastal cetacean populations in India, Bangladesh, Sri Lanka, Thailand, and Myanmar
Evaluating the status of coral reef ecosystems and socio-cultural management systems

GLOBAL

WildlifeSAIL—Global circumnavigation on a 47-foot sailing catamaran to promote education and awareness of ocean conservation
Development of a technology toolbox for the design of marine protected areas
An investigation of the responses of coral reefs to climate change

WILDLIFE CONSERVATION PROJECTS



Latin America Program Assistant Director Felicity Arengo and Central Park Zoo Curator John Rowden with a South American flamingo

North America

NEW YORK

METROPOLITAN REGION

Metropolitan Conservation Alliance: biodiversity, corridors, urban sprawl, and land use planning in New York, Connecticut, and New Jersey

NORTHERN FORESTS

Adirondack Communities and Conservation Program: community-based approach to research and conservation
Adirondack Living Landscapes Program: identifying threats to key species and habitats
Adirondack Cooperative Loon Program: education and research addressing the effects of contaminants and human activities on loon populations
Atlas of the Adirondacks: mapping and distribution of wildlife and communities

Adirondack forest regeneration

CANADA

Northern Appalachians Trans-boundary conservation of carnivores
Wolverines and planning for protected areas in the northern boreal forest
Lynx and grizzly bear research and conservation
Core area and connectivity conservation for large carnivore populations along the Canadian Rockies

CROSS- AND INTERCONTINENTAL

Conservation of red knots in the western hemisphere
Learning to Live with Wolves: Human-wolf conflict in the Great Lake states

PACIFIC WEST

Wildlife response to fire and fire

surrogate experiments
Bird responses to restoration in pine forests and in riparian areas
Effect of Sudden Oak Death syndrome on wildlife
Conservation of salmon ecosystems

WESTERN MOUNTAINS

Black bear-human interaction in Yosemite and New Mexico
Building capacity among native North Americans to conduct conservation and research on wildlife
Greater Yellowstone Living Landscape Program: conservation planning with ranching communities
Carnivore conservation: wolverines, cougars, black bears, and carnivore guild conservation
Impacts of expanding carnivores on ungulates and ecosystems
Corridor conservation: migration,

highway bottlenecks, and regional connectivity enhancement

ALASKA

Development effects on shorebirds on the Arctic Coastal Plain

Central

NEW YORK

Living Landscapes Program
Landscape Ecology and Geographic Analysis
Trade and Wildlife Hunting Foundations of Success
Research Fellowship Program
Beinecke African Scholars, Clive Marsh Field Training Grants, and The Christensen Fund Graduate Fellowship Program
Science and Exploration Program

WASHINGTON, D.C.

Conservation Finance



In Memoriam

FOR MORE THAN A CENTURY, WCS HAS SENT SCIENTISTS to the far corners of the Earth, down rivers, up mountains, across deserts to discover, study, and conserve the planet's natural riches. Our staff have survived the crises of civil wars. Valiant, but careful, has been how we pursue our mission. We take risks, but the risks are always calculated.

During all that time, our field programs had an enviable track record. While staff had been seriously injured and contracted myriad tropical diseases, we had never lost anyone in the line of duty. This year, our lucky streak ended, and fate seemed to taunt us with misfortune.

Gabon provided WCS with one of its greatest successes when, in 2002, President Bongo created a national parks system which, in large measure, was the brainchild of WCS scientists Lee White and Mike Fay (whom an elephant failed to kill over Christmas). Gabon also was where our luck ran out. In November, Field Vet Annelisa Kilbourn (right, bottom) died in a plane crash in Lope Reserve. Fiery, insightful, beautiful, brilliant—adjectives are too few to describe Annelisa and her work.

In March, José Márcio Ayres (above, with spotting scope) died at age 49, after fighting lung cancer. Losing Márcio left a huge hole in our program and in the constellation of Brazilian conservation. He helped establish a series of reserves in Brazil—including the Mamirauá/Amanã Reserve, the largest protected flooded forest in the world. But it was his youth, razor sharp wit, and inspired approach to conservation problems that made many of us feel the same sense of injustice in losing this most eloquent spokesman for the Amazonian flooded forest.

Player Crosby, a member of our International Conservation Committee, volunteered his time and plane to conservation projects around the world. While on a solo approach to his personal landing strip in the Tyringham Valley, Player suffered a heart attack and crashed his plane, ending a life of passion and commitment to conservation.

A few weeks later, pilot Jono Burchell and field assistant Ian Ross (right top, at far right) were tracking lions for our Laikipia Predator Project. They were down low, looking for lions, when the plane banked and stalled. Both men were killed on impact. Jono had been providing flight support for a year in Kenya's spectacular Laikipia Plateau. Ian was a recent college graduate with a great career ahead of him.

With over 1,000 people, we cross our fingers and hope this short streak of bad luck ends. In the meantime, we'll continue to be careful.

Joshua Ginsberg, Director, Asia Program

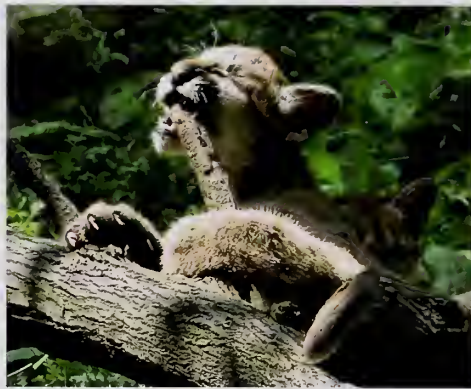


For more than a century, the Wildlife Conservation Society has sent scientists to the far corners of the Earth . . . this year, our lucky streak ended, and fate seemed to taunt us with misfortune.

■ DR. JOSHUA GINSBERG



PUBLIC AFFAIRS



THIS YEAR, PUBLIC AFFAIRS began to realize the potential of its fully integrated operations and newly formed public and private partnerships.

By mobilizing our three distinct yet complementary operations—Government Affairs, TV and Media, and Marketing and Communications—Public Affairs achieved unanticipated success amidst formidable challenges. As a result, WCS is engaging more audiences in meaningful ways, expanding its profile in new public and private arenas, and solidifying its place locally, nationally, and internationally as a leading conservation organization.

The division's greatest success came through our SOS campaign to save Queens and Prospect Park zoos from New York City budget cuts and to maintain essential city support for the Bronx Zoo and the New York Aquarium. Rallies were held at both Queens and Prospect Park zoos and at City Hall, more than 180,000 zoo supporters signed petitions, and 80,000

emails were sent to city, state and federal representatives. Two orphaned mountain lion cubs at the Queens Zoo became darlings of the campaign through local and national media coverage—including a naming contest on AOL and live coverage on the “Today” show, where WCS President and CEO Steve

By serving our communities, educating decision makers, and communicating strategically, Public Affairs expanded WCS's profile as a leading conservation organization.

■ JOHN CALVELLI

Sanderson announced the winning monikers: Felix and Cleo.

In the final weeks of budget talks, WCS staff put on a vital full-court press through our City Council Outreach Campaign, volunteering to call their City Council members and urge restoration of funds. The Mayor, City Council Speaker A. Gifford Miller, and Council members from Queens and Brooklyn, especially, responded to these efforts by restoring \$4.8 of the \$5.8 million in operating support for the two zoos. The city's final funding decisions and our outreach efforts went down to the wire. When the city's new fiscal year budget was approved, the WCS Living Institutions remained intact. The overwhelming success of the campaign was due to the coordination and efforts of hundreds of WCS volunteers, employees from all divisions, and friends of WCS.

Tiger Mountain was the focal point for a host of communications' vehicles and received outstanding media coverage, including a live remote piece on the "Today" show, a front-page Metro Section feature in *The New York Times*, and the cover story of *Wildlife Conservation* magazine's June issue.

Public Affairs played an integral role in the development of Tiger Mountain's unparalleled state-of-the-art media components and the concomitant outreach opportunities. Take a Tiger Home enrollment stations in the exhibit allow guests to take an active role in supporting tiger conservation efforts at the Bronx Zoo and in the wild. Our first e-newsletter was sent to more than 10,000 Tiger Mountain visitors who keyed in their e-mail addresses. The Tiger Testimonial Film is a moving conservation message that features striking images of tigers and testimony from such familiar figures as President Bill Clinton, New York Mayor Michael Bloomberg, and actors Glenn Close, Jerry Orbach, and Lorraine Bracco; as well as Bronx zoo staff, visitors, and volunteers.

In addition, Savingtigers.com., a companion Web site for both the new exhibit and WCS's extensive tiger research projects in the field, was launched. The site features video and images from the exhibit as well as a screensaver, e-greeting cards, desktop wallpaper, and two video games: Find the Tiger's Stripes and Build a Tiger Reserve.

In celebration of Tiger Mountain, WCS partnered with Community School District 10 and Literacy Inc. to create the T.I.G.E.R. Reading Program and a series of T.I.G.E.R. days that promoted literacy, conservation, and the new exhibit. The program advances literacy through activities such as classroom reading, poetry reading and writing, essay contests, and arts and crafts projects.

Developed as a result of our partnership with America Online, a naming contest for a Bronx Zoo baby gorilla launched AOL's "What's New @ the Zoo" feature. During March, more than 440,000 AOL members cast votes, choosing from a selection of names provided by Bronx Zoo Mammal Department keepers. The winning name for the young male was Zola. This contest alone generated more than 850,000 page-views on wcs.org as well as 1,200 e-newsletter requests.

One of Government Affairs' most important initiatives is the Public Policy Program, launched to extend WCS expertise in



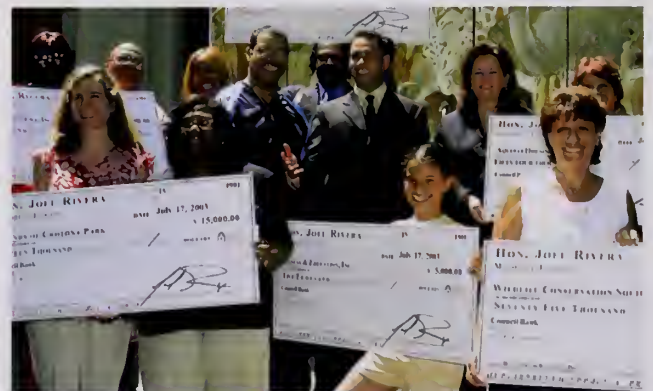
Opposite page, counterclockwise from large photo: Brooklyn Borough and New York City officials show support at Prospect Park; City Council Speaker A. Gifford Miller and son, Addison; Queens Zoo cougars Felix and Cleo; New York City Councilman Joel Rivera signs an S.O.S. petition. This page, top: Director of Community Affairs Charles Vasser and the T.I.G.E.R. Reading Program. Middle: Mayor Michael Bloomberg at the 2002 launch of the Bronx Tour Trolley. Above: Ron and Janice Imundi, Senior Vice President for Public Affairs John Calvelli, Brenda and Westchester County Executive Andrew Spano at Tiger Mountain.



conservation, curatorial science, and education to the policy-making arena. This year, the Government Affairs department opened a WCS office in Washington, D.C., through which we are building and sustaining even stronger relationships with leaders in government, other conservation entities, and the Washington-based media.

Also this year, Congressman José E. Serrano (D-NY), WCS, and the National Oceanic and Atmospheric Administration (NOAA) awarded the first round of project funding to 13 grantees, including the WCS Education Division and the Exhibit and Graphic Arts Department, which will receive a total of nearly \$6 million for the restoration and renewal of the lower Bronx River. Through our regional community-based partnership with NOAA, WCS is administering more than \$12 million in federal funds to community groups working to restore coastal habitats and acquire land that improves public access to the Bronx River. Approved projects will foster a sense of community pride, stewardship, and ultimately a broad-based participation in the Bronx River restoration.

In an effort to encourage more informed consumer decisions, WCS and the Audubon Society's Living Oceans Program launched a new Seafood Wallet Card, which helps New Yorkers distinguish between seafood species that are not doing well





and those that are “safe” to eat. The “Go Fish” Seafood Waller Card is the first of its kind to focus on those species available and popular in New York City—one of the world’s most influential seafood markets. Diners carrying the card can make quick and easy decisions about which seafood to choose at a restaurant or a seafood market. *The New York Times* featured the card in its October 16 food section, sparking a large volume of phone calls for information about the free card (<http://wcs.org/home/wild/marine/gofish/>).

The Marketing and Event Marketing departments acquired a new centerpiece for the Bronx Zoo’s annual Holiday Lights celebration—the Polar Express Experience. This incredible theater adventure, complete with a 20,000-pound antique steam locomotive, took guests on an imaginary journey into the fantastic world of Chris Van Allsburg’s award-winning children’s book *The Polar Express*. WCS’s own Wildlife Theater Players brought this childhood classic to life and helped make Holiday Lights 2002 a must-see event for families in local communities and throughout the New York metropolitan area.

Key press hits that brought WCS, its people, and programs before millions included the creation of Gabon’s National Parks on CNN and National Public Radio, and in *USA Today*, and *National Geographic* magazine; our jaguar work was featured in a *New York Times* feature story by Pulitzer Prize-winning author Natalie Angier; WCS’s unique collaboration to reduce the impact of logging in the Congo Basin was featured in a special *Times* pull-out section that coincided with the World Summit on Sustainable Development in Johannesburg; and a story on WCS’s work to save Cuban crocodiles from extinction aired on CBS Evening News, exposing some 20 million viewers to our unique conservation programs.

On all fronts, the Public Affairs Division exceeded its revenue goal and funding expectations. The Marketing Department raised more than \$1.26 million in sponsorships, a 5 percent increase from the previous fiscal year. Online Services realized a 28 percent increase in online revenues, at \$835,853 (not including education), due in large part to membership renewals. Group Sales had a 27 percent growth to the net revenue in the previous year. Private and Corporate events at all WCS Living Institutions realized \$584,781 in revenue, coming in more than 15 percent above the previous fiscal year.



Opposite page, counterclockwise from top: U.S. Congressman José Serrano awards Bronx River restoration and education grants; His Eminence Edward Cardinal Egan at Bronx Zoo’s Catholic School Day; New York City Councilmember Madeleine Provenzano donates blood; Councilmember Joel Rivera presents community awards. This page, clockwise from top: WCS booth at the New York Mets; *Wildlife Conservation* magazine staff; WCS Photographer Dennis DeMello and Living Institutions Assistant Director, Administration, Denise McClean at Central Park Zoo Gallery; Aquarium Coordinator, Outreach Services, Gary Holliday.

Our financial planning focuses on ensuring that sufficient resources are available to maintain our leadership in zoo, aquarium, and field conservation.

■ PATRICIA CALABRESE

THE WILDLIFE CONSERVATION SOCIETY closed the fiscal year with a near break-even result, as operating revenue and support fell short of expenditures by only \$322,000. This is the second year of significant improvement in financial performance. Our budget-balancing efforts are succeeding through strong private support, revenue diversification, our abiding partnership with the City of New York, and expense reductions and efficiencies. This success has come despite lower zoo and aquarium attendance and related revenues caused by extraordinarily poor weather and the war with Iraq, which discouraged visitation in the spring.

Operating revenue and support rose by 11 percent from the prior year, to a total of \$129.1 million. This growth was driven by a continued rise in private contributions to our International Conservation programs, leveraged by the Robert W. Wilson Fund challenge grant; generous giving from trustees and donors for core activities; and revenues from sponsorship and royalty programs. A federal grant awarded for Bronx River Habitat Restoration added \$12 million in revenue, which was re-granted to local organizations providing conservation and services to the Bronx River and environs. This federal grant program will continue into the next fiscal year. Support from the City of New York recovered somewhat from budget cuts of the prior year, increasing nearly 6 percent to \$24.1 million due to higher costs of utilities provided by the City to the Bronx Zoo and New York Aquarium and other reimbursements.

Growth in these revenue sources was partially offset by a \$2.7 million reduction in gate and exhibit fees and guest services income. Total attendance at WCS facilities reached 3.6 million visitors, significantly fewer than the 4.1 million visitors in FY2002. Poor weather accounted for much of the loss, with record-breaking summer heat, a cold, snowy winter, and the rainiest May on record. School group visitation was down substantially; spring trips were cancelled as a precautionary reaction to the war with Iraq. Other zoos and cultural institutions experienced similar results. We do not see this as a recurring trend.

Total operating expenditures, at \$129.4 million, grew by 10 percent. Program services expenditures and on-site visitor-related costs were \$113 million, increasing 11 percent. International Conservation expenditures grew 21 percent, fueled by private and government support. Administering the Bronx River program added \$5.3 million to expenses to cover grants to conservation groups. Bronx Zoo expenditures increased by \$3 million, nearly 8 percent, from increases affected by external factors: a sharp rise in insurance costs because of industry trends; weather-sensitive heat, light, and power expenses; and required pension contributions necessitated by weak investment markets.

Controllable core expenses in many areas were reduced. Administrative and support services, including fundraising and membership expenses, were \$14.4 million, slightly less than last year and only 11 percent of the expense base. In FY 2002, WCS began to set aside a portion of unrestricted income in a facilities renewal fund to support with recurring revenues a portion of the growing infrastructure, equipment, and technology needs of our aging facilities. In 2003, that fund totaled \$2.0 million, a \$700,000 increase.

We intend to add to this allocation over time as a component of our plan to finance facilities' needs.

Capital expenditures totaled \$15 million, reflecting increased spending on new permanent exhibits—including \$7.4 million for the Bronx Zoo's Tiger Mountain exhibit, which opened to the public in May, as well as \$1.5 million for completion of the New York Aquarium's Alien Stingers exhibit. Funding was also provided for infrastructure and animal support facilities and master planning for the Bronx Zoo and New York Aquarium.

WCS has a strong balance sheet, with gross assets totaling \$577 million at June 30, a \$27 million increase over the prior year. Investments, which include endowment and other donor and operating funds, had a market value of \$333 million, \$11 million less than FY2002. Because of timing of adjustments to the investment portfolio at year's end, \$18 million of investments assets were temporarily held in cash and cash equivalents on June 30, increasing that category of assets by \$13 million to \$30.9 million. WCS's endowment and other donor funds are invested in a well-diversified portfolio and produced a total return of 4.9 percent for the year, beating returns in major investment indexes. Total assets include a \$24 million receivable from the Federal government due to the \$12 million Bronx River Habitat Restoration program noted above and a generous facility-planning grant. At June 30, WCS had \$10.5 million in temporary borrowing, which was extinguished in July 2003.

Our financial planning focuses on ensuring sufficient resources to maintain excellence in collections, programs, and staff in our facilities and leadership in field conservation and research programs. Fundraising will concentrate on high priority program support, modernization of facilities, and new and updated exhibits and amenities to enhance visitor experience, increase our audiences, and spread our conservation message.



Operating Revenues and Expenses Year ending June 30, 2003 (with comparative amounts for 2002)

	\$ THOUSANDS	
REVENUE	2003	2002
Contributed	\$30,312	\$22,728
Membership Dues	7,730	7,348
Investment Income	16,392	16,175
City of New York	24,135	22,799
New York State	1,904	1,816
Federal Agencies	10,555	5,048
Non-governmental Organization Grants	1,819	1,875
Gate and Exhibit Admissions	17,704	18,444
Visitor Services	13,527	16,209
Education Programs	1,265	1,309
Sponsorship, Licensing, and Royalties	1,513	1,331
Other	2,277	1,580
Total Revenue	\$129,133	\$116,662
 EXPENDITURES		
Program Services		
Bronx Zoo	\$42,475	\$39,428
New York Aquarium	9,648	10,164
City Zoos	13,101	13,273
International Programs	31,843	26,316
<i>Wildlife Conservation Magazine</i>	1,415	1,901
Lower Bronx Habitat Restoration	5,255	
Total Program Services	\$103,737	\$91,082
Visitor Services	\$9,304	\$10,759
 Supporting Services		
Management and General	\$8,950	\$8,832
Membership	2,557	2,685
Fundraising	2,907	2,916
Total Supporting Services	\$14,414	\$14,433
Plant Renewal Funding	2,000	1,327
Total Expenses and Plant Renewal Funding	\$129,455	\$117,601
Excess of Expenses and Plant Renewal Funding Over Revenues	\$(322)	\$(939)

A copy of the audited financial statements is available upon request.

Consolidated Balance Sheets June 30, 2003, and 2002

\$ THOUSANDS

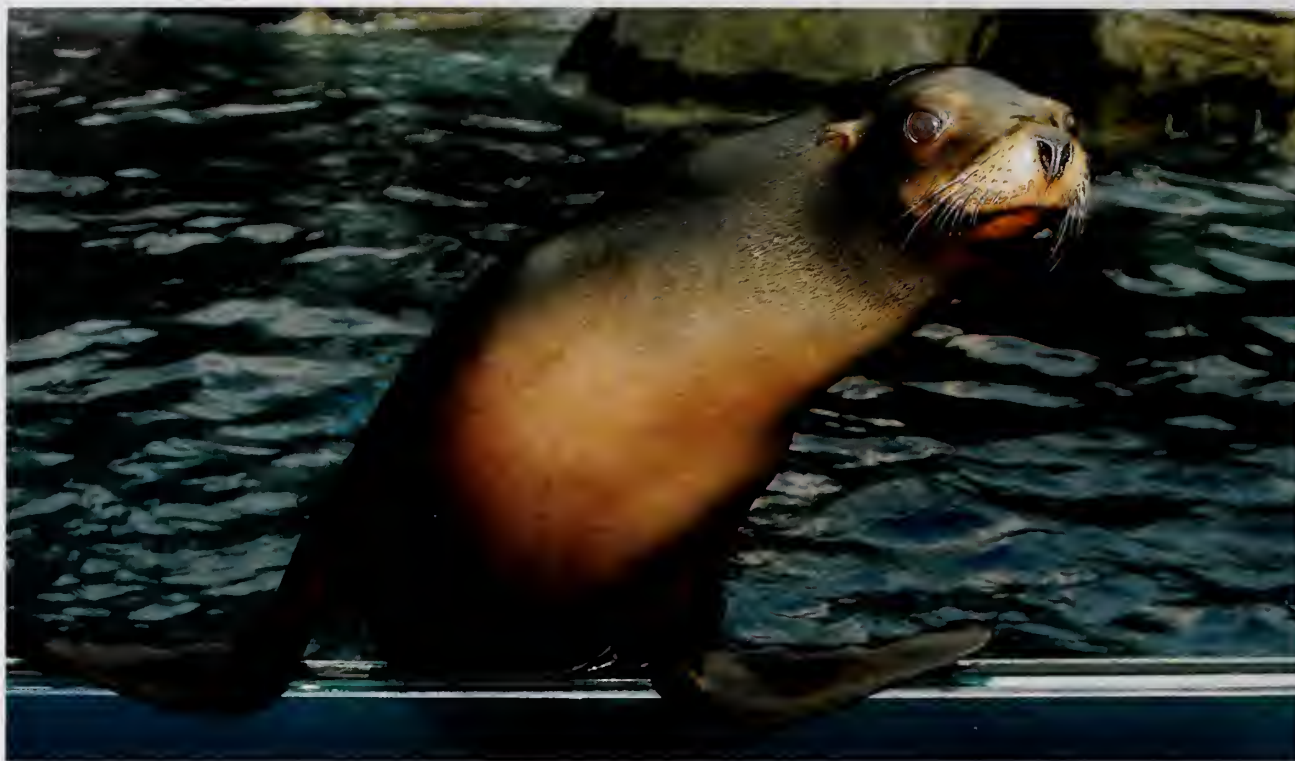
ASSETS

	2003	2002
Cash and Cash Equivalents	\$30,926	\$17,467
Accounts Receivable	1,803	2,130
Receivable from the City of New York	9,551	2,906
Receivable from the State of New York	1,901	447
Receivable from Federal Sources	24,426	8,412
Grants and Pledges Receivable	19,849	23,076
Inventories	1,244	1,348
Prepaid Expenses and Deferred Charges	7,056	6,002
Investments	332,591	343,803
Amounts Held in Trust by Others	192	186
Property and Equipment	147,214	144,293
Total Assets	\$576,753	\$550,070

LIABILITIES AND NET ASSETS

Accounts Payable and Accrued Expenses	\$21,110	\$15,147
Borrowing Under Line of Credit	10,500	
Post Retirement Benefit Obligation	13,606	12,524
Total Liabilities	\$45,216	\$27,671
Net Assets		
Unrestricted:		
Designated for Long-term Investment	116,027	119,047
Investment in Property and Equipment	147,214	144,293
Total Unrestricted	\$263,241	\$263,340
Temporarily Restricted	76,377	70,172
Permanently Restricted	191,919	188,887
Total Net Assets	\$531,537	\$522,399
Total Liabilities and Net Assets	\$576,753	\$550,070

WCS EVENTS



THE TIGER TIME GALA WAS A TREMENDOUS SUCCESS.

More than 600 attended the festive event, which was held in May at the Central Park Zoo (above, a California sea lion at the zoo). This annual black-tie evening provides resources, encouragement, and leadership to keep the Wildlife Conservation Society fully and effectively engaged in the fight to save wildlife around the world.

The honored 2003 WCS Ambassadors for Wildlife were Lorraine Bracco and Jerry Orbach.

Allison and Leonard Stern were the Gala Chairs. Honorary Chairs were Rose Marie Bravo of Burberry, William R. Chaney of Tiffany & Co., and Carroll Petrie. Elyssa Kellerman served as the Journal Chair.

This page, at left (from left to right): Gala Honorary Chairs Rose Marie Bravo and William Chaney, and WCS Trustee and Gala Chair Allison Stern.

Opposite page, clockwise from top left: 2003 WCS Ambassador for Wildlife Lorraine Bracco; Honorary Gala Chair Carroll Petrie; Journal Chair Elyssa Kellerman and Director of the New York Aquarium Paul Boyle; Gala Co-Chair Jamee Gregory; Gala Junior Chairs Gillian Hearst-Shaw, Marissa Bregman, and Amanda Hearst; Gala Co-Chairs Muffie Potter Aston and Dr. Sherrell Aston; Valesca Hermes and Gala Associate Chair Dayssi Olarte de Kanavos; Nancy and WCS Honorary Trustee Eben W. Pyne; Gala Co-Chair Georgette Mosbacher and Henry Silverman; Gala Associate Chair Ashley Schiff.

Middle photo: Designer Vera Wang, Karenna Gore Schiff, and Claudia Cohen.

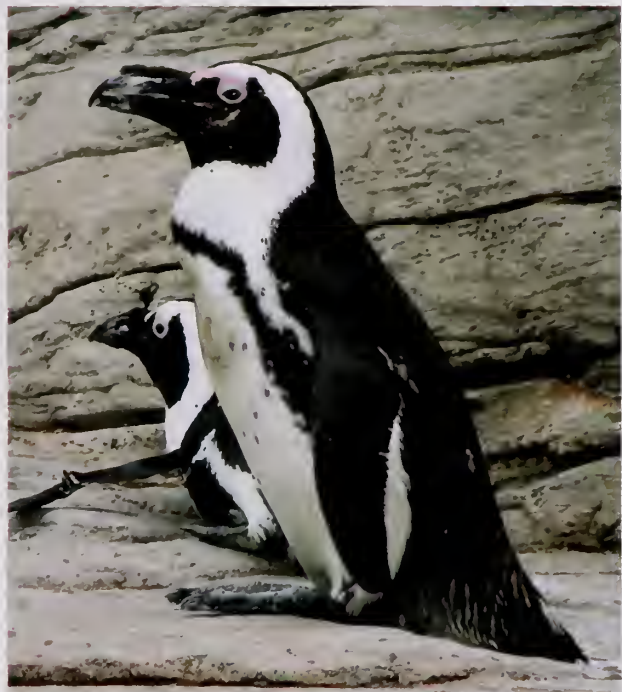


WCS EVENTS



DINNER BY THE SEA AT THE NEW YORK AQUARIUM honored the three 2003 recipients of the aquarium's Distinguished Leadership Award—Honorable Jerrold Nadler, U. S. Congress; Honorable Adele Cohen, New York Assembly; and Honorable Domenic Recchia, New York City Council. This event supports the aquarium's living collections, education program, and aquatic research program. Counterclockwise from above: Honorary Dinner Chair Honorable Marty Markowitz, Brooklyn Borough President, Honorable Joseph Lentol, New York State Assembly, Domenic Recchia, Adele Cohen, WCS President and CEO Steven Sanderson, New York Aquarium Director Paul Boyle, Jerrold Nadler, WCS Senior Vice President for Public Affairs John Calvelli, and Deputy Director of Aquarium Administration Cynthia Reich. A walrus at the aquarium. Paul Boyle, Adele Cohen, Steve Sanderson, and WCS Trustee Brian Heidtke, who chairs the WCS Aquarium Committee. Aquarium Teen Docents helped run the intriguing Silent Auction.





AN ANIMAL AFFAIR: A BUSINESS BASH AT THE Central Park Zoo honored Peter Dolan, Chairman, Bristol-Myers Squibb, and WCS Advisor Katherine Lange Dolan. Gala Co-Chairs were Eugene R. McGrath, Chairman of Con Edison, and Stephen R. Volk, Chairman of Credit Suisse First Boston. The event helps preserve and renew our parks, enhance our education programs, and protect wildlife globally. Clockwise from top left, Gala Vice-Chair Susan Rudin, Eugene McGrath, Jack Rudin, Chairman, The Rudin Management Co. Inc., Helen McGrath, a guest; David T. Schiff, Chairman of the Board of WCS, Steven Sanderson, Michael J. Kowalski, Chairman, President & CEO, Tiffany & Co., and Gala Vice-Chair; penguins; Stephen Volk, Diane Kemelman Volk; Steve Sanderson, Michael Kowalski; Ward W. Woods, Bessemer Securities Corporation and Gala Vice-Chair, Katherine Dolan, Peter Dolan, Steve Sanderson.



WCS EVENTS



LIGHTS, CAMERA, ACTION! THIS PAGE, COUNTER-clockwise from above: On November 22, New York Yankee Hall of Famer Yogi Berra, Con Edison's Joseph Oats, AT&T's Jeffrey Roberts, and WCS President Steve Sanderson flipped the switch at the Bronx Zoo's Holiday Lights 2002. The French fashion house of Lacoste celebrated its new Manhattan store at the Central Park Zoo (Lacoste Chairman Bernard LaCoste, Bronx Zoo Curator of Herpetology John Behler, and Guy Latourette of Lacoste with an endangered Chinese alligator). *Kids' Express* magazine, in Westchester County, at Tiger Mountain opening; Bronx Zoo Senior Wildlife Keeper Gina Savastano does an interview with a local television station in the Bronx.





This page, clockwise from top: In partnership with sponsor Barnes and Noble and supported by The Bronx Council on the Arts, the Bronx Zoo celebrated National Poetry Month in April with our first Poetry Safari Weekend; a baby gorilla is named after WCS Trustee Joan O. L. Tweedy for her generous support of the Bronx Zoo's Congo Gorilla Forest, with Senior Wild Animal Keeper Douglas Mase; HSBC presents a check to the New York Aquarium (WCS Trustee Brian Heidtke, Aquarium Curator of Education Meryll Kafka, Trudy Dolley, HSBS Bank USA, and Aquarium Director Paul Boyle); face-painting during Fleet Bank event at the Bronx Zoo; Bronx Zoo Friends of Wildlife Conservation were honored for years of service (front row, Sue Goldberg, 25 years; Harriet Krasnoff, 30 years; Mary Fitzpatrick, 25 years; and Sherry Udell, 30 years; back row: WCS Senior Vice President of Education Annette Berkovits and Claire Deroche, FOWC Coordinator); one of New York State Senator Guy Velella's Summer Concerts, sponsored by North Bronx Westchester Neighborhood Restoration Association, at the Bronx Zoo; *FamilyFun* magazine at Boo at the Bronx Zoo.



CONTRIBUTORS

Contributions, Pledges, and Payments on Pledges from July 1, 2002 to June 30, 2003

BEST FRIENDS

(Cumulative lifetime gifts of \$1 million or more)

Mr. and Mrs. Rand V. Araskog
Mrs. Vincent Astor
George F. Baker III
Mr. and Mrs. Frederick W. Beinecke
C. Diane Christensen and Jean Pierret
Liz Claiborne and Art Ortenberg
Mr. and Mrs. J. Michael Cline
Mr. and Mrs. Edgar M. Cullman
*Mr. and Mrs. Charles A. Dana, Jr.
Mr. and Mrs. John Elliott, Jr.
Mr. and Mrs. Gary C. Fink
Tina and William E. Flaherty
Enid A. Haupt
John R. Hearst, Jr.
Mr. and Mrs. Brian J. Heidtke

The Irwin Family
Betty Wold Johnson and Douglas F. Bushnell
Robert Wood Johnson IV
*Mr. and Mrs. Harry V. Keefe, Jr.
LAW Fund
Mr. and Mrs. Frank Y. Larkin
Mr. and Mrs. Martin Lipton
Edith McBean
Gordon and Betty Moore
Drs. Martin Nash and Jack Hennigan
The Nichols Family
Anne L. Pattee
Mr. and Mrs. Gordon B. Pattee
*Mr. and Mrs. Milton Petrie
The Perkin Family
Mr. and Mrs. Howard Phipps, Jr.
Josie and Julian Robertson
Laurance S. Rockefeller
Susan and Jack Rudin
The Schiff family
Virginia and Warren Schwerin
Mr. and Mrs. Michael Steinhardt
Allison and Leonard Stern
Dr. Judith P. Sulzberger
The Families of Laurence A. and Preston R. Tisch
Joan O.L. Tweedy
Sue Erpf Van de Bovenkamp
Robert W. Wilson
I anonymous donor
**deceased*

FOUNDATIONS

(Cumulative gifts since 1998 of \$1 million or more)

The Christensen Fund
Liz Claiborne/Art Ortenberg Foundation



WCS Trustee James M. Large, Jr. with king penguins

The Walt Disney Company Foundation
Charles Hayden Foundation
William Randolph Hearst Foundation
John D. and Catherine T. MacArthur Foundation
Gordon and Betty Moore Foundation
National Fish and Wildlife Foundation and ExxonMobil Save The Tiger Fund
Stavros S. Niarchos Foundation
Edward John Noble Foundation, Inc.
David and Lucile Packard Foundation
The Starr Foundation

BENEFACTORS

(Cumulative lifetime gifts of \$250,000 to \$999,999)

*Mr. and Mrs. Russell B. Aiken
Eleanor Briggs
Guy Cary
Stanley and Pamela Chais
Jonathan L. Cohen
Joyce Cowin
Mrs. John Culbertson
Dr. and Mrs. Henry Clay Frick II
*Mrs. Roswell Gilpatric
Mr. and Mrs. Robert G. Golet
Mr. and Mrs. Bradley L. Goldberg
Mr. and Mrs. Alexander S. Haig
Judith Hamilton
Elyssa Kellerman
William B. Lloyd
Mr. and Mrs. George K. Moss
Kay and George Schaller
Caroline N. Sidnam
*Mr. and Mrs. Howard Sloane

Sally and Julius Smolen Foundation, Inc.
Mr. and Mrs. Eugene V. Thaw
Pamela M. Thye
Mr. and Mrs. Thomas Unterberg
Mr. and Mrs. Hans P. Utsch
Jonathan P. Vannini
Mr. and Mrs. Alan N. Weedon
Robert Winthrop
Ward W. and Priscilla B. Woods
Barbara and Donald Zucker
4 anonymous donors
**deceased*

LEADERSHIP CIRCLE

(Annual gifts from individuals and foundations of \$100,000 and above)

Mr. and Mrs. Frederick W. Beinecke
Eleanor Briggs
The Christensen Fund
Mr. and Mrs. J. Michael Cline
Liz Claiborne/Art Ortenberg Foundation
Jonathan L. Cohen
Conservation International Foundation
Critical Ecosystem Partnership Fund
Laura Moore Cunningham Foundation
Michelle Andre Durand
Tina and William E. Flaherty Family Fund
Flora Family Foundation
Richard and Rhoda Goldman Fund
Judith Hamilton
Enid A. Haupt
Mr. and Mrs. Brian J. Heidtke
Hess Foundation, Inc.
Howard Hughes Medical Institute
The Irwin family

Robert Wood Johnson Jr. Charitable Trust
Robert W. Johnson 1962 Charitable Trust
Elyssa Kellerman
John D. and Catherine T. MacArthur Foundation
National Geographic Society
The New York Community Trust—Nancy G. and C. Richard MacGrath Fund
Edith McBean
Richard King Mellon Foundation
Gordon and Betty Moore Foundation
M. J. Murdock Charitable Trust
National Fish and Wildlife Foundation and ExxonMobil Save The Tiger Fund
The New York Community Trust
Edward John Noble Foundation, Inc.
Katharina Otto-Bernstein
David and Lucile Packard Foundation
The Pew Charitable Trusts
Howard Phipps Foundation
The Picower Foundation
Josie and Julian Robertson
Rockefeller Brothers Fund
The Roe Foundation, Inc.
Susan and Jack Rudin
Derald H. Ruttenberg Foundation
Saddle Foundation
The Schiff family
Virginia and Warren Schwerin
SeaWeb
The Sperry Fund
The Starr Foundation
Allison and Leonard Stern
Dr. Judith P. Sulzberger

Daniel K. Thorne Foundation, Inc.
Mr. and Mrs. Andrew H. Tisch
Joan O.I. Tweedy
Wilburforce Foundation
Robert W. Wilson
Ward W. and Priscilla B. Woods
2 anonymous donors

CHAIRMAN'S CIRCLE

(Annual gifts from individuals and foundations of \$25,000 to \$99,999)

21st Century Tiger
American Zoo and Aquarium Association, Conservation Endowment Fund
The Argosy Foundation
Elinor Patterson Baker Trust
The Barker Welfare Foundation
Beneficia Foundation
Mr. and Mrs. Harvey Bookman
Clarissa and Edgar Bronfman, Jr.
The Louis Calder Foundation
Guy Cary
Center for Environment, Research and Conservation
Sarah K. de Coizart Article TENTH Perpetual Charitable Trust
Coypu Foundation
CZ Foundation, Inc.
Geraldine R. Dodge Foundation
Mrs. Charles A. Dana, Jr.
Peter R. and Katherine L. Dolan
Edwards Mother Earth Foundation
Armand G. Erpf Fund
Mr. and Mrs. Laurence D. Fink
The Regina Bauer Frankenberg Foundation
The Freed Foundation, Inc.
Helen Clay Frick Foundation
Francis Goelet Foundation
Mr. and Mrs. Bradley L. Goldberg
Paul A. Gould
The Marc Haas Foundation
Mr. and Mrs. William H. Hamm III
Joy R. Hilliard
Homeland Foundation
Mrs. Harry V. Keefe, Jr.
Monica M. Krick
Mr. and Mrs. James M. Large, Jr.
Lawrence & Dana Linden Family Foundation
The Lipton Foundation
William B. Lloyd
McBean Family Foundation
Mr. and Mrs. Richard Miller
Mr. and Mrs. George K. Moss
National Fish and Wildlife Foundation
The Overbrook Foundation
The Perkin Fund
Pew Fellows Program in Marine Conservation
Prospect Hill Foundation
V. Kann Rasmussen Foundation
Walter and Jeanne Sedgwick
Caroline N. Sidnam
Sally and Julius Smolen Foundation, Inc.
Mr. and Mrs. Richard Spalding
Pamela M. Thye
Trust For Mutual Understanding
Mr. and Mrs. Thomas Unterberg
The G. Unger Vetlesen Foundation
Mr. and Mrs. Hans P. Utsch
Wallis Foundation
W. Larry Westbrook

The Norman and Rosita Winston Foundation, Inc.
Zoo Zürich
4 anonymous donors

PRESIDENT'S CIRCLE

(Annual gifts from individuals and foundations of \$10,000 to \$24,999)

Joseph & Sophia Abeles Foundation
Nancy Abraham and Arnold Moss
Louis and Anne Abrons Foundation, Inc.
American Museum of Natural History, Center for Biodiversity and Conservation
Avellino Family Foundation, Inc.
Avocet Charitable Lead Unitrust
The Theodore H. Barth Foundation, Inc.
The Howard Bayne Fund
Mr. and Mrs. Michael W. Bealmear
Mr. and Mrs. Ronald N. Beck
Samuel J. Bloomingdale Foundation
The Bobolink Foundation
Bodman Foundation
Mr. and Mrs. Henry R. Breck
Mrs. Donald Bruckmann
The Bullitt Foundation
Mary Livingston Griggs and Mary Griggs Burke Foundation
Clifford N. Burnstein and Sabra Turnbull
The C.A.U.S.E.
Dr. Irene Cannon-Geary
Julia Carpenter
The Chicago Zoological Society
The Claremont Colleges
Gladys G. Cofrin Fund
Rhoda Weiskopf Cohen and Herbert G. Cohen, M.D.
*Player Crosby
Strachan Donnelley, Ph.D.
Mr. and Mrs. John Elliott, Jr.
The Lincoln Ellsworth Foundation
The Emerald Foundation
Mr. and Mrs. Richard Flintoft
Malcolm Fraser Foundation
Mr. and Mrs. William E. Freeman
Mr. and Mrs. John R. Frawley, Jr.
Charles Fritz III
Alexandra G. Goelet
Ms. Jane H. Goldman
Peter M. Graham
The Stewart and Constance Greenfield Foundation
Greentree Foundation
Hagedorn Fund
Mary W. Harriman Foundation
Gladys and Roland Harriman Foundation
Marc Helie
Mr. and Mrs. Edgar E. Jackson
Jackson Hole Preserve, Incorporated
Jesselson Foundation
Mark and Anla Cheng Kingdon Foundation
F.M. Kirby Foundation, Inc.
The Walter C. Klein Foundation
Barbara and Michael Kowalski
Lady Kinnoull's Trusts
Rose-Marie and Dick Lewent
GC and JW Lodge Fund
Mr. and Mrs. George T. Lowy
Margot Marsh Biodiversity

Foundation
Mary A. & John M. McCarthy Foundation
Dr. and Mrs. Robert Mercer
The Moriah Fund
Henry and Lucy Moses Fund, Inc.
Mulber Fund
Mrs. Martin Nash and Jack Hennigan
New York City Environmental Fund of the Hudson River Foundation
Nichols Foundation, Inc. (in memory of Charles W. Nichols)
North of England Zoological Society
Oak Lodge Foundation
Lyndon L. Olson, Jr.
PKD Trust
The Panaphil Foundation
The Nando Peretti Foundation
Generoso Pope Foundation
Eben W. Pyne
John and Laura Ressler
Jonathan Rinehart
Mr. and Mrs. E. John Rosenwald, Jr.
Mr. and Mrs. Stephen R. Seiter
Ms. Elmina B. Sewall
Shared Earth Foundation
The Sidney, Milton and Leoma Simon Foundation
Mr. and Mrs. Joseph R. Siphron
Ruth Smart Foundation
The Stebbins Fund
Robert Michael Stein and Katharine Pooley
Mr. and Mrs. John Stevenson
Tides Foundation
University of California
Richard N. Viets
Richard A. Voell Family Fund
Alexander H. Watson
Mr. and Mrs. Alan N. Weeden
Mr. and Mrs. Charles L. Wilson III
Mr. and Mrs. Samuel H. Wolcott III
Mr. and Mrs. E. Lisk Wyckoff, Jr.
Zoological Society of San Diego
3 anonymous donors
*deceased

CURATOR'S CIRCLE

(Annual gifts from individuals and foundations of \$5,000 to \$9,999)

Joseph Allen
American Conservation Association
Dr. Janet Asimov
Patricia I. Avery
The Baobab Fund
The Bay Foundation
Mr. John J. Beecham
Blanche T. Enders Charitable Trust
Mary S. Boardman
Dr. P. Dee Boersma
Mr. and Mrs. W. L. Lyons Brown, Jr.
H.W. Buckner Charitable Residuary Trust
Mrs. Robert Scott Collins
Commonwealth Zoological Corporation
Community Foundation of Jackson Hole
The Cowles Charitable Trust
Mr. and Mrs. Horace I. Crary, Jr.

Mr. and Mrs. Joseph DiMeina
Richard de Martin and Jennifer L. Brosen
Cleveland H. Dodge Foundation, Inc.
Mr. and Mrs. Stephen Dow
The Caleb C. and Julia W. Dula Educational and Charitable Foundation
Nikki J. Eckert
Elephant Rock Foundation, Inc.
Environmental Defense F. & J.S. Fund, Inc.
Mr. and Mrs. Donald Fisher
Katherine G. Frase and Kevin McAuliffe
Dr. Laurie R. Goldstein
The Grodzins Fund
John J. Hagenbuch
Karen Haycox-Eltrich
Mr. and Mrs. Harry B. Henshel
Andrew and Jody Heyward
Mr. and Mrs. Frank W. Hoch
Richard Holmstrom and Kate Ridgway
Hans P. Huber
Wende and Tom Hutton
Robert S. Kaplan
The J.M. Kaplan Fund
The Walter C. Klein Foundation
The Ruth and Seymour Klein Foundation, Inc.
Mrs. Elysabeth Kleinhans
Richard P. Krasnow and Nancy Meyrich
Mr. and Mrs. Steven Lear
Mary D. and George N. Lindsay
The Michael Lynch and Susan Baker Foundation
Ruth and Bernard Madoff
Jennifer C. Maitland
Andrew and Gemma Major
Ann and John H. Manice
Thomas and Amy Marano
Mrs. Frits Markus
James Harper Marshall Foundation
Mr. and Mrs. Roman Martinez IV
Mr. Robert F. McCormick
Mr. and Mrs. Eugene R. McGrath
John P. and Anne Welsh McNulty Foundation
Steven D. Meyer and Carol Sze
Sally Dodge Mole and Dale Gulbrandsen
Jan McM. Montgomery
Mr. and Mrs. Michael A. Moran
Heidi Nitze
Mr. and Mrs. Raj K. Nooyi
Friends of Oakland Zoo
Mr. and Mrs. Howard Oestreich
Mr. and Mrs. Jeffrey R. Peltier
Mr. and Mrs. George D. Phipps
Mrs. Cheever Porter Foundation
Mary S. and George B. Rabb
Katharine A. Ray
Shelley Resnick
Resources Legacy Fund
Mary H. Rumsey Foundation
Dorothy K. Rupp
Steven and Rosalie Sanderson
Paula Rosina Santoro Foundation
Schlinger Foundation
The William P. and Gertrude Schweitzer Foundation, Inc.
Mr. and Mrs. Eric P. Sheinberg

CONTRIBUTORS

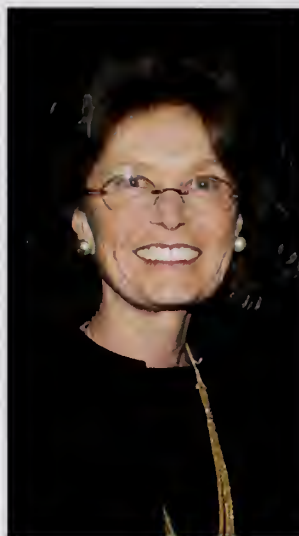
Mr. and Mrs. Binkley C. Shorts
The Paul Singer Family
Foundation
Robert K. Steel Family Foundation
The Ruth and Vernon Taylor
Foundation
Carmen and John Thain
Mr. and Mrs. Eugene V. Thaw
Turner Endangered Species Fund, Inc.
Kathryn F. Wagner
Mr. and Mrs. Hedley M. Weeks
3 anonymous donors

INDIVIDUAL AND FOUNDATION DONORS

(Annual gifts of \$1,000 to \$4,999)

Sharman and David Altshuler
Advised Fund
Mr. and Mrs. Tucker Andersen
Mr. and Mrs. Alan Ascher
Mr. and Mrs. E. Nelson Asiel
Elizabeth H. Atwood
Ayudar Foundation
Mr. R. Walter Bachman
Donna Bailey
Mr. and Mrs. Jerry Ball
Lillian and Maurice Barbash
Lorraine W. Bardsley
Mr. and Mrs. Peter Bartlett
Sandra Atlas Bass
Bat Conservation International Inc.
John C. Beck
Carolyn and Laurence Belfer
The Morris S. and Florence H.
Bender Foundation, Inc.
Honorable Lucy Wilson Benson
Mr. and Mrs. Bruce Bent
Dr. and Mrs. Alan S. Berkeley
Ann and Joe Berkman
Mr. and Mrs. Richard Bernstein
Mr. and Mrs. John C. Bierwirth
Mr. and Mrs. Charles S. Bird III
Marilyn and Ira Birnbaum
Lois D. Blumenfeld
Boone and Crockett Club
Cynthia and Eric Bothwell
Rene Breier
Brevard Zoo
Mr. and Mrs. John Briedis
Brodsky Charitable Foundation
Mr. and Mrs. William N. Bucklin III
Mr. and Mrs. Michael J. Bucuvalas
Rev. and Mrs. C. Frederick Buechner
The Buchler Foundation
Mr. and Mrs. James E. Burke
Mrs. Jackson Burke
Glenda and John Buckhart
Mr. and Mrs. Willard C. Butcher
David Butler
Mr. and Mrs. Samuel C. Butler
Mr. David Buzby and
Ms. Susheela Vasan
C.A.L. Foundation, Inc.
Thomas and Elizabeth Caine
Ann and Donald Calder
Mr. and Mrs. Charles W. Calomiris
Barbara I. and Walter W. Carey
Caribbean Gardens

Gregg and Kimberly Carlin
Mr. Michael Casey
Mr. and Mrs. Tom R. Casselman
Mrs. Catharine L. Cathay
Mr. and Mrs. John Cederholm
Ida and Stanley Chamberlin
Percilla A.L. Chappell
Charina Foundation, Inc.
Mr. and Mrs. Thomas H. Choate
Yvon Chouinard
Alexandra Alger and Dan Chung
Cincinnati Zoological &
Botanical Gardens
Jane E. Clifford
Bruce E. Cobern
Mr. and Mrs. Jon C. Coe
Mr. and Mrs. Harvey M. Cohen
I.L. Cohen Foundation
Joseph F. Coleman
The Coleman Foundation
Mr. and Mrs. Mark Colen
P & C Collins Fund
Vivian and Howard Colson
Columbus Zoological Park
Association, Inc.
Constans Culver Foundation
Dr. and Mrs. William G. Conway
Mr. and Mrs. Edgar M. Cullman
Mr. and Mrs. Joseph F. Cullman 3rd
Mrs. Catherine G. Curran
Dr. Anne McB. Curtis
Verena and Roderick Cushman
The Dammann Fund, Inc.
Mr. and Mrs. Stephen S. Daniel
J.R. Davey
George Davidson and Eileen Glynn
Mr. and Mrs. John G. Day
Carol and Disque Deane
Mr. and Mrs. Alfred C. DeCrane, Jr.
Michael and Susan Delaney
Marie G. Dennett Foundation
The Deo Gratias Foundation
Denise and Sam DeRosa-Farag
William E. Derrenbacher
Mr. and Mrs. Colin Devine
Mr. and Mrs. Erin C. Devlin
Mr. and Mrs. Martin Diamond
The Dillon Fund
Heather-Mary Dixon
Barbara Burn Dolensek
Ms. Del Donati
Margaret F. Donovan
Mr. Charles E. Dorkey III
Jacqueline Dryfoos
Christopher and Barbara Durso
Leigh Eckstein and Dana L. Telsey
Blair W. and Cheryl Cohen Effron
Mr. and Mrs. Alvert Eisenstein
Nicole and Christopher Elliman
The Robert G. and Jane V. Engel
Foundation, Inc.
Charles and Sylvia Erhart
Mr. and Mrs. Robert Esnard
Richard and Cecilia Fahbro
The Fanwood Foundation
Muriel and Sims Farr
Martha Feltenstein
Sergio Ferraz and Vania Guerreiro



**WCS Trustee Barbara
Hrbek Zucker**

Mr. and Mrs. Baruch Fischhoff
Robert and Elizabeth Fisher Fund
John J. Flemm Foundation, Inc.
Mr. and Mrs. James Flood
Sharon H. Fong and
James H. Wistman
Nicole Kafka Foote and
Richard S. Foote
Joseph Fraga
Peter F. Frank
Ernst and Elfriede Frank Foundation
Kay and Stephen Frankfurt
Drs. Ricky and Lynn Friedman
Mr. and Mrs. Stuart Friedman
Mr. and Mrs. Johannes Fritze
Joyce and Nathan D. Froot
Meaghan M. and
Kenneth P. Fullerton
Deirdre F. and Michael Gabbay
Landis H. Gabel Charitable
Lead Trust
The Gage Fund Inc.
Alvert H. and Wanatha P. Garner
Seymour L. and Phyllis H. Gartenberg
Dr. Julian D. Gee
Georgia Aquarium, Inc.
Ms. Lovelle Gibson
Joshua Ginsberg and
Catherine A. Kerr
Ms. Linda E. Gladstone
Elizabeth B. Glassco Living Trust
Mrs. Joseph Gleicher
William T. Golden
Goldman Environmental Foundation
Karen I. Goldmark and
Andrew Pernambuco
Katherine L. Goolsby
Irvin H. Gordon
Vice President and Mrs. Al Gore, Jr.
Robert and Trudy Gottesman
Philanthropic Fund
Mr. and Mrs. Doug Grabe
Mr. and Mrs. Fritz Grau

Mr. and Mrs. Jay Greenberg
Mr. and Mrs. Paul R. Greenwood
Mr. and Mrs. Benjamin A. Groves
Antonia and George J. Grumbach, Jr.
Winston Guest
Agnes Gund and Daniel Shapiro
Janice P. Haggerty
Caroline H. Hall
Julia and Barney Hallingby
Mr. and Mrs. Frank J. Hallowell
Christopher Hansen
Suni and Woody Harford
Jo Ann W. Harley
Bill and Ruth Ann Harnisch
Helen Leale Harper, Jr.
James N. Hauslein
Mr. and Mrs. Arthur Hauspurg
Hawthorne Lane Fund
Lynne Hayden-Findlay
Mr. and Mrs. Harvard K. Hecker
The Heilbrunn Foundation
*Mr. and Mrs. Andrew Heiskell
Ms. Jennifer Herring
Steven and Jane Hoch
Deirdre and Christopher Hockett
Mr. and Mrs. Joseph Hofheimer
Mr. and Mrs. Michael J. Horvitz
Anne H. and John K. Howat
Jeff Hunter
Steven and Alison Hussey
Mr. and Mrs. Robert A. Hutchens
Peter Hutchings and
Martha Wolfgang
The Edith B. and Lee V. Jacobs
Fund No. 1
Mr. and Mrs. Edgar E. Jackson
Bruce Johnstone
Jennifer and Frederick Kaden
Anne and Fred Kamheitz
Richard Kandel
Pat and Paul D. Kaplan
Susan & John Karlin Family Fund
Mitchell and Beatrice Karten
Christopher J. and Mary Beth Kearns
Mr. and Mrs. Stephen Kellen
Anna-Maria and Stephen Kellen
Foundation
Mr. and Mrs. John H. Kelly
Mr. and Mrs. Henry Kibel
Victoria Hansen Kikoski
Kirsten F. Kilbourn
Mr. and Mrs. Harold Kingsberg
Dr. and Mrs. Michael G. Kirsch
Dr. and Mrs. Alan M. Kisner
Jodi and Keith Kleinick
John and Patricia Klingenstein
Eileen and Joseph Kosiner
Mr. and Mrs. Adam Kossoy
Mr. and Mrs. Werner H. Kramarsky
Marian I. Krauss
Mr. and Mrs. Robert Kruger
Carol A. and Michael S. Kurtz
Lainbeer Family Gift Fund
Lakeside Foundation
Diana and John Lamb
Diana and Stanley Langer
Elise S. Lapham
Mr. and Mrs. Leonard A. Lauder

Mr. and Mrs. Alexander Laughlin
Cynthia Lawrence
Dorothea Lawson
Susan and Steven Lav
David and Laurie Zucker Lederman
Mr. Jonathan Lehman
Helaine Heilbrunn Lerner
Mr. and Mrs. Richard I. Lesser
Marion H. Levy
William G. Levy
Lucille and Scott Lichtenberg
Mike Liechty
Mr. and Mrs. Peter R. Limburg
The Lincoln Park Zoological Society
Michael Lindley
Kathleen Lingo
Mr. and Mrs. Allan W. Linke
Thomas and Amanda Lister
Steven Littman and Diane Tarbell
Harvey and Gayle B. Litwin
Lorna M. Livingston
Randy and Lori Livingston
Charitable Gift Trust
Clare and Joseph A. LoCicero
The Arthur Loeb Foundation
Jeanette and Peter Loeb
Lostand Foundation, Inc.
Mr. and Mrs. Davis M. Love III
Michelle and Craig H. Loweth
Lubee Foundation, Inc.
Mr. and Mrs. Dan W. Lufkin
Kiera and Jerry Lynch
Paul C. Ma
Marjorie G. and Joseph M. Macchia
Mr. and Mrs. Copeland MacClintock
James A. MacDonald Foundation
Edith W. MacGuire
Mr. and Mrs. Andrew Madoff
Mr. and Mrs. James I. Magid
Martha P. Maguire
Rachelle and Anthony Malkin
Mr. and Mrs. Peter L. Malkin
Alesia Marinelli
Michael and Jean Martin
Mr. and Mrs. R. C. Marvel
Mathis Pfohl Foundation
A. K. Matsumoto
Stacey and Pels Matthews
Mr. and Mrs. Peter Matthiessen
Charles Mayer and Dolly Persaud
Annie D. McAlpine
John and Nancy McCaffrey
Heather McFarlin
John and Constance McGillicuddy
Mr. and Mrs. Frank McGinnis
Luanne McGrain and Eric Brauer
John L. McHugh Foundation, Inc.
Emily B. McKay
W.B. McKeown and
Constance C. Coles
Martha B. McLanahan
Mr. and Mrs. Howard McMorris II
Dr. and Mrs. Mark Meadow
Mr. and Mrs. Louis J. Mezzina
Mr. and Mrs. Brian R. Michael
Mr. and Mrs. Sam Scott Miller
Dr. and Mrs. Irwin W. Mindell
Eric and Stacey Mindich
Monroe College
Barbara Winkler-Monsanto and
Enrique Monsanto
Ms. Ann F. Morfogen
Mr. and Mrs. John P. Morgan II
Jay and Catherine Morrow

Mr. and Mrs. Lester S. Morse, Jr.
Morton Family Foundation
Mr. and Mrs. Charles H. Mott
Rosemary A. Moukad
Tom Mudd
Ms. Cathryn L. Mueller
Elizabeth P. Munson and
Robert L. von Stade
Mr. and Mrs. Donald B. Murphy
Liza Jane Murphy
Sudha Nandagopal
The Nature Conservancy
Mrs. C.F. Naumburg
Mr. and Mrs. Roy R. Neuberger
Mr. John S. Newberry IV
Ms. Joanne Woodward and
Mr. Paul L. Newman
Ellen and Walt Newsom
Mr. Cesar Nillaga
Drs. Ralph and
Jadвига Da Costa Nuñez
G.M. O'Connell Family
Mr. and Mrs. Denis J. O'Grady
Abby and George O'Neill Trust
Frances R. Olivieri and
Lowell Johnston
Gerald Oppenheimer Family
Foundation
Mr. and Mrs. Edwin N. Ordway, Jr.
Mr. and Mrs. Nicholas Osborne
Mr. and Mrs. Richard L. Pack
Mr. and Mrs. Andrew Panelli
Moses L. Parshelsky Foundation
Mr. and Mrs. Donald Patrick
Dr. and Mrs. Andrew H. Patterson
Andrew Paul
Jacqueline Pearlman
Mr. and Mrs. John R. Peckham
Robin and Matthew E. Perkins
Mr. and Mrs. Charles E. Perrin
William H. Perry III
Mr. and Mrs. Jay Pierrepont
Nancy and Frank Pierson
Isis Pikitch and Joe Zakar
Robert Pilkington
Mr. and Mrs. John R. Pingree
Victoria L. Pitkin
Michael J. Piuze
Mr. and Mrs. Russell H. Pollack
Lauretta Pretera
Mr. and Mrs. Alan E. Prestia
Primate Conservation, Inc.
Project AWARE Foundation
Judith S. Randal Foundation
Linda Rands
Raymond Family Foundation
Amy H. and James S. Regan
H. Reisman Charitable Trust
Mrs. William C. Ridgway, Jr.
Robert Rifkin
Wendy L. Riggs
Amy and Larry Robbins
Mr. and Mrs. John B. Robbins
David Rockefeller
Nelson A. Rockefeller, Jr.
Mr. and Mrs. Theodore O. Rogers, Jr.
Susan and Lonny Romano
Abigail Rose and Michael J. Blum
Jeannette and Jonathan Rosen
Sheila and Daniel Rosenblum
Faith Rosenfeld
Mr. and Mrs. Axel G. Rosin
Cye and Rona Ross
Richard W. Ross

Mr. William Ross and
Ms. Margot Dick
Mr. and Mrs. Walter N. Rothschild, Jr.
Ellen and Ronald Roxby
Mr. and Mrs. Stephen T. Rubinstein
Carin Ruzicka
Saint Ann's School
Stuart M. Salenger
Barbara Saltzman
Charitable Foundation
San Antonio Zoological Society
Santa Barbara Zoological Foundation
Dr. and Mrs. Andrew Schiff
Scott Schiff
Joanne Schiller
Mr. and Mrs. Walter J. Schloss
Edward D. Schmidt
Cynthia L. Sears and Frank Buxton
Sears Family Charitable Lead Trust
Mr. and Mrs. Christopher J. Seiber
Harvey S. Seiderbaum
Nancy Shane
Natalie and Howard Shawn
Felice K. Shea
Neal and Jacqueline Shear
Mr. and Mrs. Steven R. Sheck
Mr. and Mrs. Jonathan R. Sheer
Carol and Stephen Shey
Sharon Siegfried and
Fredric A. Silberman
Andrea M. and Jeffrey A. Silver
Erron Silverstein
Mr. and Mrs. Manoj P. Singh
Alexander B. Slater
Marjorie Smith
Richard E. Snyder and
Laura Yorke Snyder
Edna and Jonathan Solnis
Robert Spehar
Mr. and Mrs. John Spencer
Alfred T. Stanley Foundation
Mr. and Mrs. Oliver K. Stanton
Mr. and Mrs. Andrew P. Steffan
Mr. and Mrs. Daniel H. Stern
Mr. and Mrs. Emanuel Stern
Sidney Stern Memorial Trust
Mr. and Mrs. George Sternlieb
James J. Stewart and
Kathleen E. Kinsella
John W. and Laura S. Stewart
Foundation Inc.
Clare C. Stone
Stonebridge Foundation
Mr. and Mrs. Frank A. Strohm
Students of PS 14
Drs. Elliot H. and Anne R. Summers
Julia G. and Stephen Sutcliffe
Barbara J. Taller
Elizabeth T. and
Leonard M. Tannenbaum
Jeffrey Taschler and Dina Treanor
Nancy Taubenslag and
Mauri Rosenthal
K. Christopher Taylor and
Anthony Cirone
Buddy Teich
Michael Teitler and Judith Katz
Judith L. Teller and David M. Kaye
Mr. and Mrs. Marcel Tenenbaum
Texas State Aquarium Association
Richard J. Thalheimer
Philanthropic Fund
Thanksgiving Foundation
Mrs. Stuart W. Thayer

Claire L. Theobald and
Michael Purves
Cristina Stenbeck and
Patricia Thomas
Mr. Walter G. Thompson
Walter G. Thompson Fund
Bjorn and Margaret Thorbjarnarson
John and Evelyn Trevor Charitable
Foundation
Michael Tuch Foundation, Inc.
Jennifer Urdan
Mrs. John A. van Beuren
Josephine B. Vargas
Bill Weber and Amy Vedder
Mr. and Mrs. Robert P. Viarengo
Mr. and Mrs. William A. Volkhausen
Mrs. Jephtha H. Wade
Howard and Anne Ward
Mr. and Mrs. Christopher Waterman
The Thomas J. Watson Foundation
Tracy Wee and Sharon Fu
Mr. and Mrs. Alan G. Weiler
Theodore and Renee Weiler
Foundation
Mr. and Mrs. Charles L. Weinberg
Mary Jane Weiskopf
Sylvia and Robert Weiss
Joel S. Weissman
Lucille Werlinich
Dr. and Mrs. Owen Whitby
Alec Wildenstein
Mr. and Mrs. R. H. Wilder, Jr.
Mr. and Mrs. William E. Willis
Gary and Karen Winnick Family
Foundation
Mr. and Mrs. Frederic Winthrop, Jr.
Mr. and Mrs. Richard Witten
Ken Wollenberg and Barbara Lee Ebs
Woodland Park Zoological Society
Mr. and Mrs. James H. Wykoff
Mr. and Mrs. Robert Yoakum
Janet B. York
Mr. and Mrs. John R. Young
Mr. and Mrs. George J. Zahringer III
9 anonymous donors
**deceased*

**CONSERVATION PARTNERS
(\$500 - \$999)**

Andreas J. Aarbo and
Elizabeth Bohrer
Lynn and Seth Abraham
Vicki Adair
Ethel & Philip Adelman Charitable
Foundation, Inc.
Ellen and Joseph Agresti
Emily H. Alexander
Jane Alexander and Edward Sherin
Liza Altman
Annette and Eric J. Altmann
American Association of Zoo
Veterinarians
American Friends of The Hebrew
University Charitable Common
Fund
Gwendolen M. Appleyard
Ellen Asher
Candace Baker and Barry Glasser
The James and Alvina Bartos Balog
Foundation, Inc.
Beatrice H. Barrett
Robert H. Bates
Perry S. Bechky and Sirina Tsai
Garrard Beeneey and Evan Mason

CONTRIBUTORS

Annette Benedict
 Mr. Peter R. Benedict
 Lisa S. Arone and Charles L. Benkard
 Paula and Leland Black
 Laura and Lloyd Blankfein
 Mr. and Mrs. Richard Blankfein
 Dan Blatt and Chandra Towers Blatt
 Dr. and Mrs. M. Donald Blaufox
 Mr. and Mrs. Edward Blitzer
 Mr. and Mrs. William T. Boland
 Mary L. Bowerman
 John and Susan Boyle
 Inge and Lester Brafman
 Marilyn Bruneau
 Sabrina M. Bryant
 Dana Buchman and Tom Farber
 Carol S. Burket
 Campbell Foundation
 Dr. and Mrs. Robert Cancro
 William S. Carbine
 Mr. and Mrs. James F. Carlin
 Jenny F.J. Chin
 Elise N. Cholet
 Glenn Close
 Gwenn Cohen
 H. Rodgin Cohen and
 Barbara Cohen
 Philip R. Cohen and
 Sharon L. Oviatt
 Jessie Cooper
 Mary Cronson and
 Caroline Cronson
 Christopher J. Crowley
 Bryan K. Curran
 Mr. and Mrs. Peter B. Daly
 Mr. and Mrs. Michael Danaher
 Thomas F. Darden
 Kathy and Paul Davis
 Margaret V. Demarrais
 Eley P. Denson
 Mr. and Mrs. Martin Deutsch
 Christopher DiAngelo and
 Lindsay Baker
 Ronald J. and Krystyna O. Doerfler
 Nancie Ellis and Geoffrey Domm
 Teresa Donahue
 David Doss
 Mr. and Mrs. David A. Downing
 Mr. and Mrs. Scott A. Draper
 Michael Dubno and
 Loren Blackford
 Robert M. Duffy
 Mr. and Mrs. David Edelstein
 Johanna and Robert Fagen
 Dawn and Joseph Figueroa
 Susan E. and Thomas K. Flanagan
 Dr. and Mrs. David R. Flatt
 Maria and Patrick Fleming
 Mr. Anthony Frangione
 Evan M. Friedman
 Michael Fulton
 Future Generations, Inc.
 Mr. and Mrs. Gerald Galison
 Gallant Family Foundation
 Mr. and Mrs. Robert Garber
 Mr. and Mrs. Scott L. Geller
 Joseph and Carson Gleberman
 Patricia and Richard Goldberg



Aquarium Deputy Director Cynthia Reich, Director Paul Boyle, and WCS Trustee Brian and Darlene Heidtke

Joan and Sam Goldstein
 Good Works Foundation
 Greer Goodman
 William F. Gratz and Jim Bruno
 Veronica Greco
 Arthur Gregory
 Mr. and Mrs. Daniel Griffin
 Peter S. Gummo
 John Gunther-Mohr and
 Elizabeth Wedemeyer
 Sarah and Abhay R. Gurjal
 Thomas Hale
 Stephanie Halpin and
 Anthony Uzzo
 Mr. and Mrs. James C. Hanchett
 Susan B. Hannah
 J.B. and Mary G. Harreld
 Peter J. Harris
 Mr. and Mrs. William Harris, Jr.
 Emily Hart
 Margo Hassan
 Eiyal Hillel
 Wallace E. Holland
 Mr. and Mrs. De Witt Horner
 Mr. and Mrs. Peter M. Horoszko
 John W. House
 David W. Iles
 Kristine and Robert Inman
 Peter Jennings
 Judith M. Joy
 Mark Kassop
 Bob Kempf
 Wendy and John Keryk
 Pratap S. Khanwilkar
 Linda Kiger
 Anna Simone Kleinman and
 Thomas Wong
 Rachel and Robert Kramer
 Bruce R. Kraus
 Marie M. and Konrad R. Kruger
 Mr. and Mrs. Peter Lane

Cristopher Lapp
 Dr. and Mrs. David E. Lawrence
 Frederick Layman
 Sandra Lazo and Donald H. Layton
 Paul Leff
 Walter F. and Wilma R. Leinhardt
 Lemar Leland
 Mary and Edward Levy
 Aniki Libby
 Tina Lievano
 Nina and John Lipkowitz
 Elise Goldschlag and
 Kevin L. Lundeen
 Mr. and Mrs. Michael Lynne
 Janice M. MacAvoy and
 Johnson S. McKelvy
 David B. Magee
 Don Majeski
 Lori Ann and Anthony Mallardi
 Lola Mason
 Mr. and Mrs. Marc O. Mayer
 Mrs. Peter McBean
 Cynthia and John A. McCaffrey
 Mr. William B. McClatchy
 Gordon McLeod and
 Melanie Grisanti
 Mr. and Mrs. Gerald M. McLoughlin
 Alexander D. Mebane
 Julie A. Meerschwan
 Mr. and Mrs. Joseph Mele
 Sandy and Jonathan Merrill
 Carole Meyers and Alan Cattier
 Mr. and Mrs. Robert B. Millard
 Heidi G. and Brian Miller
 Jeremy Minshull
 Mr. and Mrs. Kenneth Mooney
 Melanie and Jason Morgan
 Dr. and Mrs. Joel M. Moskowitz
 Stephanie Mudick and
 David Gottlieb
 Mary E. Murdock

Laurence W. Nagel
 Belle and Murray Nathan Fund
 Mr. and Mrs. George A. Nelson
 Noble and Greenough School
 Edward O'Gorman
 Elizabeth W. Oberdorfer
 Conrad J. Obregon
 David Orentreich
 Nathaniel and Page Owings
 Mr. and Mrs. Bruce Paisner
 Nina Palmer-Sweeney
 Panwy Foundation, Inc.
 Mr. and Mrs. John P. Parise
 Patricia B. Park
 Gita Patina
 The Pingree School, Inc.
 Christopher R. Plaut and
 Nancy Winkelstein
 Ann C. Poll
 Students of PS 100
 Bayard D. Rea
 Deborah A. Reich
 Mark A. Riely
 Scott C. Rolles
 Mr. and Mrs. Robert Rosenman
 Dr. and Mrs. Myron Rosenthal
 Frederick N. Rosseter
 Mrs. Bernard K. Rothenberg
 Ruml Leithner Family Fund
 Amy and John Saar
 Sandy and Alan B. Sadwin
 Cheryl A. Salkin
 Michelle L. and Ronald I. Saltz
 Charles E. Scarlett III
 Lylah M. Schieck
 Catherine J. and Brian P. Schwartz
 Janny Scott and Bill Ritter
 Piali Sengupta
 Deborah S. and Allan L. Shindell
 Shore Country Day School
 Pauline Shueh and Justin Chuch

Maria C. and Joel A. Shulman
 Maria G. and Brian M. Shydló
 Lorin Silverman and
 Patty Lipschutz
 Judith and Peter Som
 Diane F. and David L. Steward
 Phyllis Strickler
 Mack L. Sullivan
 Mr. and Mrs. David W. Swenson
 Mr. and Mrs. Ronald S. Tauber
 John Terborgh
 Electra and Christopher Toub
 Tulsa Zoo Friends, Inc.
 Wilhelmina O. and Thomas J. Uhl
 Mr. and Mrs. Daniel J. Vantucci
 Mr. and Mrs. John Vaske
 Ruby and Martin Vogelfanger
 Philanthropic Fund
 Marjorie Von Stade
 Mrs. Marjory S. Walters
 Mr. and Mrs. Charles Webster
 Marshall Weinberg
 Laura Weisel and David Krawitz
 Mildred and George Weissman
 Philanthropic Fund
 Phoebe A. Weseley and
 David E. King
 Mr. and Mrs. William Wigger
 Mr. David S. Wilkie
 Gwenn S. Winkhaus
 Sotos and Fernanda Yannopoulos
 Mr. and Mrs. Ronald H. Yee
 Mr. Rodger D. Young
 Rob Zanger
 2 anonymous donors

DONORS TO SPECIAL EVENTS

\$50,000 and above

Samuel J. Bloomingdale Foundation
 The Heidtke Foundation, Inc.
 Hess Foundation, Inc.
 Homeland Foundation, Inc.
 Mr. and Mrs. Howard Phipps, Jr.
 Allison and Leonard Stern
 Donald and Barbara Zucker
 Foundation

\$25,000 - \$49,999

Burberry
 Jonathan L. Cohen
 Mr. and Mrs. William E. Flaherty
 Paul A. Gould
 Mr. and Mrs. John R. Hearst, Jr.
 Patricia Hearst and
 Bernard L. Shaw
 Hillside Capital Inc.
 Elyssa Kellerman
 Loews Corporation
 Katharina Otto-Bernstein
 Saddle Foundation
 The Schiff Foundation
 Virginia and Warren Schwerin
 The Starpoint Charitable Trust
 Mr. Daniel K. Thorne

\$10,000 - \$24,999

Mr. and Mrs. Rand V. Araskog
 Bayou Securities, LLC
 Mr. and Mrs. Leon D. Black
 Liz Claiborne/Art Ortenberg
 Foundation
 Mr. and Mrs. J. Michael Cline
 Cullen and Dykman Bleakley Platt, LLP
 Mrs. Charles A. Dana, Jr.

The Walt Disney Company
 Mr. and Mrs. Bradley L. Goldberg
 Ms. Jane H. Goldman
 Antonia and George J. Grumbach, Jr.
 Anne Hearst
 The Kanbar Charitable Trust
 Mrs. Harry V. Keeffe, Jr.
 Stephanie Krieger
 Mr. and Mrs. Roman Martinez IV
 Edith McBean
 New York Mercantile Exchange
 Charitable Foundation
 Mrs. Carroll Petrie
 Pricewaterhouse Cooper LLP
 Prudential Securities
 Denise Rich
 Jonathan Rinehart
 Laurance S. Rockefeller
 The Rockefeller Group, Inc.
 Montres Rolex
 Mr. and Mrs. E. John Rosenwald, Jr.
 Nina Rosenwald
 Ms. Ashley R. Schiff
 Mr. and Mrs. Stephen A. Schwarzman
 Mr. and Mrs. Michael Steinhart
 Edward Stern and Stephanie Rein
 Emanuel and Liz Stern
 Andrea Stern
 Mr. and Mrs. Donald Tober
 Mr. and Mrs. Andrew Thomas
 Tiffany & Co.
 Mr. and Mrs. Jeffrey Peltier
 Mr. and Mrs. Thomas Unterberg
 Wachtell, Lipton, Rosen & Katz
 Young & Rubicam, Inc.

\$5000 - \$9999

John C. Armstrong
 Mr. and Mrs. Ronald N. Beck
 The Blackstone Group
 Mr. and Mrs. Arthur L. Carter
 Guy Cary
 Dayssi and Paul Kanavos
 Peter R. and Katherine L. Dolan
 Mr. & Mrs. Glenn R. Dubin
 Armand G. Erpf Fund, Inc.
 Suzanne P. Fawbush and
 Chris Grisanti
 Mr. and Mrs. George L. Fox
 Mr. and Mrs. Robert G. Goelert
 Peter M. Graham
 Deborah and Allen J. Grubman
 Hartz Associates
 Marc A. Helie
 Penni L. Hirtenstein
 Independence Community
 Foundation
 JP Morgan Chase
 KeySpan
 Linda and Benjamin Lambert
 Davy Lapa
 Mr. and Mrs. James M. Large, Jr.
 The Lautenberg Foundation
 The Lipton Foundation
 Managed Quantitative Advisors
 LLC
 Mr. and Mrs. Thomas J. McGrath
 Mr. and Mrs. Richard Mishaan
 The Moore Charitable Foundation
 Mr. and Mrs. George K. Moss
 Mr. and Mrs. Mark A. Neuberger
 Mr. and Mrs. Gordon B. Pattee
 Phoenix Beverages Inc.
 Mr. and Mrs. Curtis J. Schenker

Henry and Nancy Silverman
 Andrew and Dana Stone
 Mr. and Mrs. Andrew H. Tisch
 The Tomorrow Foundation Inc.
 Turner Foundation Inc.
 Dr. and Mrs. Karl Wamsler
 Marian Weil
 1 anonymous donor

\$1000 - \$4999

Harriet Ames Charitable Trust
 APAS Foundation
 Jean François Astier
 Dr. Sherrell J. Aston and
 Muffie Potter Aston
 Avellino Family Foundation, Inc.
 Axiom Holdings Corporation, LLC
 David M. and Barbara Baldwin
 Foundation, Inc.
 The Bandier Family Foundation
 Bank of America
 John S. Barman
 Elizabeth E. Bartlett
 Bauman Family Foundation, Inc.
 Jayne E. and Paul A. Becker
 Mr. and Mrs. Frederick W. Beinecke
 The Robert A. and Renee E. Belfer
 Family Foundation
 Gaia A. Benitez
 Jeffrey L. Berenson
 Stephanie E. K. Borynack
 The Boston Consulting Group, Inc.
 Martin Bregman
 Brighton Development
 Mr. and Mrs. Garrison W. Brinton
 Marisa and Matthew C. Brown
 Mr. and Mrs. George H. Bullen
 C & S Fencing, Inc.
 Catherine Cahill and
 William Bernhard
 Dahlia and Dominic Capolongo
 Dayton T. Carr
 Cartier
 Bonnie and Clive Chajet
 Chaus Realty LLC
 Circle Line Statue of Liberty Ferry, Inc.
 City Newark Glass Company
 Isobel and Struan Coleman
 Colonial Title and Abstract Service
 Consolidated Edison Company of
 New York, Inc.
 Cortel Business Systems, Inc.
 Nancy Corzine
 Mr. and Mrs. Horace I. Crary, Jr.
 J. Fletcher Creamer Foundation
 Credit Suisse First Boston
 *Player Crosby
 Mr. and Mrs. Edgar M. Cullman, Jr.
 Mr. and Mrs. Roberto de Guardiola
 Mr. and Mrs. Ron Delsener
 Deluxe Corporation Foundation
 Deno's Wonder Wheel Park
 Deutsche Bank
 S. DiGiacomo & Son, Inc.
 Dr. and Mrs. Ronald Dozaretz
 Richard A. Dunne
 Ms. C. C. Dyer
 Alice and David Elgart
 Mr. and Mrs. John Elliott, Jr.
 Emerald Painting, Inc.
 Englander Foundation, Inc.
 Envirotech Consultants
 Dr. and Mrs. John W. Espy
 F & G Mechanical Corporation

Fimat USA, Inc.
 Diane and Jerry Fishman
 Olivia and Adam Flatto
 Andrew Fox and Caroline Hirsch
 Edward F. Gentner
 Phyllis George
 Joy Germont
 Bernard Goldberg
 Mr. Ryan D. Goldberg
 Robert Golden and
 Maureen Moore
 Stephanie and Jay Goldman
 Dr. Laurie R. Goldstein
 Michael H. Grady
 Greenbaum, Rowe, Smith, Ravin,
 Davis and Himmel LLP
 Ms. Jane Greenleaf
 Mr. and Mrs. Peter S. Gregory
 Grocery Haulers, Inc.
 Mr. and Mrs. Martin Gross
 Audrey and Martin Gruss
 Mr. Thomas Guinzburg
 Agnes Gund and Daniel Shapiro
 Hackensack Steel Corp.
 Ms. Dana A. Hammond
 Mr. and Mrs. Edward G. Hayes
 Haynes Security, Inc.
 Rolf Heitmeyer
 Jackie and Keith Hennessey
 Mr. and Mrs. Larry Herbert
 Marlene Hess and James H. Zirin
 Kathy and Rick Hilton
 The Richard L. Hirsch Foundation, Inc.
 Mr. and Mrs. Jonathan Ingham
 Interstate Drywall Corporation
 The Irwin Family
 Josloff Industries Inc.
 Karen A. and Kevin W. Kennedy
 Foundation
 Ms. Karen Karp and
 Mr. Luke Appignani
 Mr. and Mrs. Robert W. Kean III
 Dr. Valerie King and
 David R. Jones, Esq.
 Gloria C. Kisch
 Mr. and Mrs. David H. Koch
 Mr. Thomas F. Kranz
 Christina and Barry Kringstein
 L & W Realty Company
 Mr. and Mrs. Alessandro Lanaro
 Margo M. Langenberg
 Richard S. & Karen Lefrak
 Charitable Foundation
 Harrison T. Lefrak
 Mr. and Mrs. Leonard Lauder
 Richard I. Lesser
 Joan Liebowitz
 Linde-Griffith Construction Company
 Mr. and Mrs. Armand Lindenbaum
 Erin and Chris Lindvall
 Marcia and John R. Lindvall
 John L. Loeb, Jr. Foundation
 Ruth and Bernard Madoff
 Leslie and Thomas Maheras
 Michael B. Mann
 Mariner Investment Group, Inc.
 Max Foundation
 Mr. and Mrs. M. Anthony May
 Mayer Family Foundation
 Mr. and Mrs. David A. McCreery
 Mr. and Mrs. Frederick A. Melhado
 Mr. J. Ezra Merkin
 Leon and Joan Meyers
 Philanthropic Fund

CONTRIBUTORS

Stanley R. Miller Foundation
Mr. and Mrs. Sylvester Minter IV
Joseph and Marguerite Moran
Alfred H. Morris
Georgette Mosbacher
Mt. Lucas Management Corp.
Elizabeth P. Munson and
Robert L. von Stade
National States Electric Systems
Mr. and Mrs. Carl A. Navarre, Jr.
John L. Neu Family Foundation, Inc.
Daniel Nir and Jill Braufman
Charitable Fund

Richard Nye Foundation
Old Hill Partners
Christopher Palmer
Ambassador Joseph R. Paolino, Jr.
Mr. and Mrs. Stephen Peck
Peerless Importers, Inc.
The Picheny Charitable Trust
Laura and John J. Pomerantz
Principal Building Services, Inc.
Hiromi and Robert Printz
Mr. and Mrs. Eben W. Pyne
Lewis Rabinowitz
Mimi and Lorin L. Reiser
Angela Rich
Richmond County Savings Foundation
Rockefeller & Co., Inc.
Roosevelt & Cross Incorporated
Debbie and Brett Rosen
Kara and Stephen Ross
Mr. and Mrs. Marc J. Rowan
Royston Investments Corporation
Derald H. Ruttenberg Foundation
Dr. and Mrs. Andrew Schiff
Mary and Paul C. Schorr
Miquette and Morton J. Schrader
Jack & Hilda Schulder Foundation
Howard Swarzman
Scordio Construction
Securities Industry Automation Corp.
Security Trust Company, N.A.
Donna and Jack Shapiro
Sodisc L.L.P.
Terri A. Spencer
Spyglass Capital Trading Co.
Stadtmauer Bailkin LLP
Standard Motor Products, Inc.
John and Andrea Stark
Charlotte S. and Henry G. Stifel
Stroock & Stroock & Lavan
The Sulzberger Foundation, Inc.
June and Jona Szapiro
Tannenbaum Helpen Syracuse
& Hirschrift I.L.P.
Dana and Douglas C. Taylor
Third Point Management
Foundation
Sandra J. Thomson
Mr. and Mrs. Thomas Tisch
Judson Traphagen
Mary M. and John Trousdale
Diane M. and Robert G. Ulrich
Unity Electric Co., Inc.
Van Eck Associates Corporation
Mr. and Mrs. Gianluigi Vittadini
Charles J. Volpe



WCS Trustee Ward W. Woods and WCS President and CEO Steven E. Sanderson

Wachovia Maher Partners
Claude and Bruce Wasserstein
Mr. and Mrs. Alan N. Weeden
Mr. and Mrs. Jonathan Weintraub
West Side Advisors LLC
Dr. and Mrs. Robert D. Wickham
Mr. and Mrs. Phillip M. Winegar
Mr. and Mrs. Larry A. Wohl
Mr. and Mrs. Frank Woods
Patricia and Rogih Yazgi
Baroness Mariuccia Zerilli-Marimò
Dr. and Mrs. Jonathan Zizmor
Alan Zwickler
1 anonymous donor
*deceased

BEQUESTS

Ruth C. Arps
Mrs. Ione Barnes
Lillian Cohen
Alan B. Cox
Samuel and Hilda Duff
Joseph Falkiewicz
Edith M. Gavan
Lillian Calif Gross
Ruth Hechinger
Charlotte G. Howland
Eileen Adair Hughes
Elizabeth S. Livingston
Anna Lukas
Sylvia Mikkola
Henry C. Neidig
Marjorie Phillips
Charlotte H. Porter
Roy A. Priess
Leland Shafer
Robert C. Skakel
Hazel L. Wilbur

WILDLIFE HERITAGE CIRCLE
(Members have included WCS
in their estate plans or other
gift arrangements)
Norma J. Abele
Ethel Adler

Dorothy L. Asendorf
Dr. Janet Asimov
Betty L. Barry
Beverly Bender
Annette Benedict
Helen Benjamin
Irmgard Bennett
Honorable Lucy Wilson Benson
Susanna and Jason Berger
Ann Berkman
Gisela and Daniel Berkson
Priscilla Blakemore
Louis H. Blumengarten
Mr. and Mrs. Harvey Bookman
Margaret A. Borgstrand
Randy Brook
Marlene Bryda
Drs. Cynthia and Robert Burns
Walter and Sylvia Burton
Michael Campbell
William H. Canfield
Dr. Irene Cannon-Geary
Peggy Catalane
Caroline and Dominick Celli
Dorothy Babcock Chapin
Marie Ciaiola
Emily Clifton
Albert Cohen and Eleanor Herman
Louise G. Collins
Margery Cornwell
Rhonda Coulston
Dr. Susan Cropper
Mr. and Mrs. Edgar M. Cullman
Robert Cusick
Mrs. Charles A. Dana, Jr.
Joy Darlington
Countess Emilie de Rohan-Chandor
Margaret Della Cioppa
Annette DeLuca
I leather-Mary Dixon
Christopher Durso
Barbara Dzubak
Mr. and Mrs. John Elliott, Jr.
William T. Farrar
Joan L. Faust

Bonnie Fisher
Taryn and Howard Fisher
Robert and Judith Foester
Connie C. Frazier
Christophe and Desly Movius Fryer
Margaret Garland
Lois Gartlir
Evadne Gerrard
Fred Good
Leo Gorin
Barbara Graham
Margaret and Floyd Grave
Sharon Grelsamer
Thomas M. Griffing
Dr. James F. Grillo
Katharine Gross
Margaret L. Hagen
Leo Carl Halpern
Judith Hamilton
Mary Harkness
Gregory F. Hauser
Mrs. Peg Heath
Drs. David and Deirdre Hensen
Amy Hersh
Joan Hesterberg
Carroll Ann Hodges
Augusta Hook
Margaret Rose Hope
Mr. William Hughes
Mr. and Mrs. Edgar E. Jackson
Mr. and Mrs. Howard Jacobs
Irma Jaffe
Sonya Jensen
Joan and Edward Kaplan
Mr. and Mrs. John E. Karlin
Yvonne P. Kenny
Mrs. Raymond Konopasek
Edith Kopecky
Simah Kraus
Henry Lefer
Grace Leight
Suzi Leonard
Dr. Richard W. Levy
Lucy D. Lieberfeld
Michael Lindley
Kathleen Lingo
Harvey Litwin
William B. Lloyd
Catherine Lomuscio
Dorcas MacClintock
Elisabeth B. MacDougall
Andrew J. Main
Patricia Malkin
Mr. and Mrs. James P. Marion, Jr.
Mr. and Mrs. George J. Marra
Megan M. McCormick
Mr. and Mrs. David Herron Meese
Charles W. Merrels
Stella Miller
Margo Mindell
James F. Minter and David J. Schnabel
Max Money
Richard Montgomery
Shirley Moreines
Drs. Martin Nash and Jack Hennigan
Mr. and Mrs. Murray L. Nathan
Claire K. Necker
Larry Ness

Ronald Nullet
Marilyn O'Brien
Mr. and Mrs. David Obedzinski
Doris Ohlsen
Theresa and Leonard Ormsten
Jacqueline Pearlman
Terry Pelster
Martha Pezrow
PKD Trust
Jane Cox Ponty
Dr. and Mrs. Simon Poyta
Robert M. Preissner
Lauretta Prestera
Phil and Irene Pullen
Eben W. Pyne
Nancy Reed
Kathleen Ritch
Mr. and Mrs. Daniel Rose
Barbara Rosenthal
Jacqueline Rossi
Linda Rothstein
Dorothy K. Rupp
Loretta Russo
Peter Schaffer
Ms. Joan Scheier
Christine Schiavone-McKeon
Karin and Patrick Schiavone
Joanne Schiller
Rena Schilsky
Marilyn G. Schroeder
Harriet Segman
Norma Gudin Shaw
Binkley and Paula Shorts
Sheila Siderman and Jerry Palin
Fred Siemer
Sharon Siegfried and Fredric A. Silberman
Greta Smith
Kenneth L. Smith and Lucia Christopher
Ferne Spieler
Adrienne Statfeld
Marilyn Steele
C. Streno
Marie Streno
Phyllis Strickler
Dave Stutey
Susanne Suba-Bloch
Audrey J. Sutton
John J. Symansky
Mercede Trudeau
Lorraine Umek
Dr. Hansa van Hove
Dr. and Mrs. Christopher Vasilopoulos
Charles O. Vellone
Teresa L. Vincent
John and Victoria Walker
Mrs. Marjory S. Walters
Fanny E. Warburg
William T. Warnock
Mary E. Warters
Mr. and Mrs. Douglas P. Warwick
Marshall Weinberg
Barry Weisen
Lucille Werlinich
Selma Wiener
Mr. and Mrs. Phillip M. Winegar
Betty Winkler
Elizabeth M. Zapp
Monica E. Zullo
23 anonymous donors

CORPORATE BENEFACTORS

(Gifts of \$25,000 and above)
BP International
Bristol-Myers Squibb Company

Citigroup Foundation
Liz Claiborne Inc.
Consolidated Edison Company of
New York, Inc.
Disney Wildlife Conservation Fund
Fuji Photo Film U.S.A., Inc.
GE Foundation
Martha Pezrow, Inc.
Hillside Capital Inc.
Independence Community Bank
Independence Community
Foundation
Lucent Technologies Foundation
JP Morgan Chase
The New York Times Company
Foundation
The Pfizer Foundation
Pfizer Inc./Animal Health Group
Montres Rolex
Scott & Cronin, LLP
Target Stores
The Tiffany & Co. Foundation
Toyota USA Foundation

CORPORATE PATRONS

(Gifts of \$10,000 to \$24,999)

Altria Group, Inc.
AOL Time Warner, Inc.
The Bank of New York
Bloomberg
Capital Group Companies
Charitable Foundation
Colgate-Palmolive Company
Credit Suisse First Boston
Goldman, Sachs & Co.
HSBC Bank USA
ING
Keefe, Bruyette & Woods, Inc.
Lenox Capital Inc.
Microsoft Corporation
Moody's Foundation
Morgan Stanley Dean Witter
Pedigree Masterfoods
The Rockefeller Group, Inc.
Sony Corporation of America
Toshiba America Foundation
UBS
UBS Financial Services Inc.
Westbury Cattle Company
The H.W. Wilson Foundation

CORPORATE SPONSORS

(Gifts of \$6,000 to \$9,999)
Automatic Data Processing, Inc.
Central Nebraska Packing, Inc.
LFC Lessors Inc.
WG Trading Company

CORPORATE MEMBERS

(Gifts of \$3,000 to \$5,999)
2D Photo Production, LLC
Akin, Gump, Strauss,
Hauer & Feld
The Bloomingdale's Fund of the
Federated Department Stores
Foundation
Gillies Coffee Company
The Guardian Life Insurance
Company
H.L. Dalis, Inc.
Henry Schein, Inc.
McGraw-Hill Companies
Merrill Lynch & Co.
MetLife

Park Summit Realty Corp.
/The Mayflower Hotel
Rotella Capital Management, Inc.
Unilever

CORPORATE ASSOCIATES

(Gifts of \$1,000 to \$2,999)
Bunge North America
Busch Entertainment Corp.
The Coach Dairy Goat Farm
Georgia-Pacific Corporation
Gerry Office
Hansen Chiropractic Inc.
Kings Plaza Shopping Center
and Marina
Melco, Inc.
Moritz Cadillac, Inc.
San Juan Hand Therapy
Schroder Investment Management
North America Inc.
Sea Island Company
Thomas Publishing Company
Veterinary Information Network, Inc.
Young President's Organization

MARKETING PARTNERS

Amerada Hess Corporation
The Appicare Foundation
Aston Martin Jaguar Land Rover,
North America
The Children's Place
Con Edison Company of
New York, Inc.
Coors Brewing Co.
FamilyFun Magazine
FleetBoston Financial
Fuji Photo Film USA, Inc.
Intervid NA
J&J Snack Foods Corporation
Kraft Foods
Montefiore Medical Center
Norwegian Cruise Line
New York Liberty
Pepsi-Cola Bottling of New York, Inc.
Unilever

GIFTS-IN-KIND

AeroMexico
Air Jamaica
Alitalia
Alison's on Dominick
Applebees
Arizona Beverages
Aveda
Barnes & Noble
A.F. Bennett Salon and
Wellness Spa
Bombadier
Brooklyn Conservatory of Music
Brooklyn Cyclones
Buena Vista Pictures Marketing
Burberry
Mr. Scott Andrew Cally
Charmelle Industries, Inc.
Chelsea Piers
Circuit City
Coleman/Sunbeam
Columbia Sportswear Co.
Completely Bare
Computer Associates
Computer Trading Post
Elegant Affairs
Richard Ellis
The Fishman Organization

John Fraser
Friends of Fishes
Gap Inc.
Joseph Giusti & BAM Industries
Gold's Gym
Hampshire II Hotels
Handspring Foundation
Heartbeat Restaurant
Independence Community Bank
India Tourism
iPHOTOART Inc.
JetBlue Airways
June and Ho, Inc.
K & M International
KeySpan Energy
Kiss Sea Spa
Dr. and Mrs. Michael Klemens
Knoxville Zoo
Steven Kramer
KTU 103.5
Dr. Paul Loiselle
Lucerne Hotels
Macy's
Pat and Charles Maraziti
Mr. George Marra
Martha Stewart Living
Mayflower Hotel
Merrokane
Michael C. Fina
Michael Jordan's Steakhouse
Museums NY
The New York Institute of
Technology
New York Liberty
New York Knicks
New York Times Photo
Archive
Paedergaat Gym
Peerless Importers, Inc.
PepsiCo.
Provenance Fine Art
Prudential Financial
Radio Disney AM 1560
Ridgewood Savings Bank
Royal Caribbean Cruises
Carl Safina
Scharff Weisberg Lighting, LLC
Sea Life Galleries
Diane Shapiro
Southampton College
Spring Hill Suites/Marriott
Stand Up NY Comedy Club
Starbuck's
Stew Leonard's
Swiss Army Watch
Tiffany & Co.
Tourism Malaysia
Toys R Us
Tropicana Dole Products, Inc.
Turkey Hill Dairy
Versar, Inc.
Videofilm Systems, Inc.
Walt Disney World
Wendy's International
WFAS 103.9
Art Wolfe
Wyland Foundation
Yellow Book
Pat & Rogih Yazgi

(Great care has been taken to ensure the accuracy of this list. Please accept our apologies for any omissions or inaccuracies.)

COMMITTEES



A group of juvenile rockhopper penguins in the Falkland Islands, where WCS is concerned about the affects of human activities on seabirds

ANNUAL PATRONS COMMITTEE

Jackie A. Hennessey, *Co-Chairman*
 Elizabeth Kenny Lack, *Co-Chairman*
 Cynthia Lewis Beck
 Wiggie Bitter
 Janice P. Haggerty
 Julie Hascoe
 Anne Keating
 Dawn G. Kisner
 Kiera T. Lynch
 Stacey Matthews
 James C. Nolan
 Alexia Hamm Pickett
 Valerie Mnuchin Rozen
 Allison M. Stern
 Donna M. Uher
 Martha Wolfgang
 Laura Yorke

AQUARIUM COMMITTEE

Brian J. Heidtke*, *Chairman*
 Dominic A. Capolongo*
 Trudy Dolley*
 Peter Emerson*
 Diane Fishman*
 Jerry Fishman*
 David F. Gedris
 Joseph P. Giasi*
 John R. Hearst, Jr.
 James McCabe*
 Terence J. Mitchell*
 Alton Murray*
 Joshua L. Muss
 Howard Phipps, Jr.*
 Charles W. Russell, Jr.
 Peter G. Schiff
 Tazewell A. Smith*

Patricia Yazgi*
 David T. Schiff*, *ex officio*
 *Steering Committee

COMMUNICATIONS COMMITTEE

Jane Alexander, *Co-Chairman*
 Ann Unterberg, *Co-Chairman*
 Mrs. William C. Beutel
 John Elliott, Jr.
 Paul A. Gould
 Judson C. Green
 Anita L. Keefe
 Elyssa Kellerman
 Michael J. Kowalski
 Richard I. Lesser
 Hon. Anthony D. Marshall
 Mrs. George K. Moss
 John S. Newberry IV
 Mrs. Gordon B. Pattee
 Howard Phipps, Jr.
 Jonathan Rinehart
 Faith Rosenfeld
 Cynthia Round
 Forrest Sawyer
 Irwin Segelstein
 Andrew H. Tisch
 David T. Schiff, *ex officio*

CONSERVATION COUNCIL

Stephanie E. K. Borynack,
Co-Chairman
 Adair Byers, *Co-Chairman*
 Lauren Kisner, *Co-Chairman*
 Daniel Barnosky
 Anne Chandler Bass
 Sarah Boardman
 Polly Bonsal

Lisa Bottomley
 Keturah Bracey
 Benjamin C. de Menil
 Cassie Donn
 Mettrie Dorsey
 Christine Elia
 Blair Endresen
 Christopher Goodman
 Pamela Harrington
 Tanya Jessop
 Victoria Hansen Kikoski
 Cornelia Knight
 Gillian Koenig
 Harrison LeFraki
 Christopher H. Manice
 Claire Milonas
 Alice Louise Parker
 Alix Peck
 Raina Penchansky
 Emilia Fanjul Pfeifler
 Mary Ross
 Heather Sargent
 Lauren Sbordone
 David Slaven
 Pilar Solimene
 Margot Streeter
 Michael Tiedemann
 Jud Traphagen
 Jill Unger
 Whitney Walker
 Amy Whiteley
 R. Scott Zenko

EDUCATION AND EXHIBITION COMMITTEE

Mrs. Charles L. Wilson III, *Chairman*
 Patricia Avery

John Elliott, Jr.
 Charlotte K. Frank
 Candice K. Frawley
 Robert G. Goelet
 David R. Jones
 Sandra Lerner
 Eugene Linden
 Peter J. Madonia
 Sally Dodge Mole
 Mrs. George K. Moss
 Heidi Nitze
 Ralph Nuñez
 Annette Urso Rickel
 Virginia Schwerin
 E. Lisk Wyckoff, Jr.
 Barbara Hrbek Zucker
 David T. Schiff, *ex officio*

EXPLORERS COMMITTEE

Mimi Reisner, *Co-Chairman*
 Mary Margaret Trousdale,
Co-Chairman
 Barbara and Jude Barbera
 Cynthia and Ronald Beck
 Amy and Tim Berkowitz III
 Jane Pollock and Philip Berney
 Katherine Carpenter and
 Peter M. Schulte
 Debby Carter and Charles Conroy
 Dina and Fouad Chartouni
 Peri and David Clark, Jr.
 Paula Zahn and Richard Cohen
 Isobel and Struan Coleman
 Ann and Geoffrey Coley
 Melissa and David Condo
 Julie and Robert Daum
 Lisa and David Desmond

Maureen and Thomas Dore, Jr.
 Louise and Alexander Dye
 Nora and Charles Effron
 Luete and Mark Eichorn
 Alison and Douglas Feagin
 Cozy and Joseph Friedman
 Barbara Moore and Miles Glidden
 Rebecca and Larry Grafsstein
 Patricia Halterman
 Heather and Roger Harper
 Jackie and Keith Hennessey
 Katie Danziger and Steve Horowitz
 Ritchey and David Howe
 Diane and Winston Hutchins
 Sandy and James Katzman
 Susan and Walter Keenan
 Elyssa Kellerman
 Laura and Michael Koch
 Tamara and Josh Leuchtenburg
 Stacey and Keith Locker
 Leslie and Thomas Maheras
 Liz and Kelly Martin
 Joy and Charles McLendon, Jr.
 Whitney and Clarke Murphy
 Katy and Larry Norton, Jr.
 Suzanne and David Oliver
 Suzanne and Craig Packer
 Mimi and Lorin Reisner
 Heather and John Sargent
 Lisa and William Selby
 Mary Alice and M. David Sherrill
 Nancy Newton and John Sipp
 Christina and Sean Smith
 Karen and Spencer Smul
 Laura Yorke and Richard Snyder
 Marcy and Jeffrey Sohm
 Traie and Doug Teitelbaum
 Mary Margaret and
 John Trousdale
 Lynn and Dan Tudor
 Kathryn and Bill Tyree
 Margie and William Ughetta, Jr.
 Maria and Jerome Villalba
 Tory and Nelson Walsh
 Charlotte and John Wickham
 Andrea de Cholnoky and
 Scott Wilson

**INTERNATIONAL
 CONSERVATION COMMITTEE**

Frederick W. Beinecke*,
Co-Chairman
 Mrs. George K. Moss*, *Co-Chairman*
 Jane Alexander*
 Marianna Baker
 Jeffrey L. Berenson
 Mrs. Henry Breck
 Eleanor Briggs
 Mrs. Donald Bruckmann
 Coleman Burke
 Gilbert Butler
 Catherine Cahill
 Dr. Irene Cannon-Geary
 Guy Cary
 Lynn Chase
 C. Diane Christensen
 J. Michael Cline*
 Stephen Cobb*
 William G. Conway*
 **Player Crosby
 John Elliott, Jr.
 Mrs. Laurence Fink
 William Freeman
 Murray Gell-Mann

Alexandra Goelet
 Robert G. Goelet
 Bradley Goldberg
 Peter Graham
 Judson C. Green*
 Marc A. Hele
 John N. Irwin III
 Christopher W. Johnson
 Robert W. Kean, Jr.
 Elyssa Kellerman
 Michael J. Kowalski
 James M. Large, Jr.
 Frank Y. Larkin
 Thomas E. Lovejoy*
 Hon. Anthony D. Marshall
 Edith McBean*
 John D. Mitchell
 Carl A. Navarre, Jr.
 Mrs. Gordon B. Pattee
 Merritt Paulson
 Howard Phipps, Jr.
 William Rayner
 Katherine Ruttenberg
 George B. Schaller*
 Walter C. Sedgwick*
 Mary Joan Hoene Seiter
 Mrs. Stanley Shuman
 Caroline N. Sidnam
 Joseph R. Siphron*
 Mrs. Joseph R. Siphron
 Cynthia R. Stebbins
 Craig Taylor*
 Daniel K. Thorne
 Pamela M. Thye
 Reed Beauregard Turner
 Mrs. Richard B. Tweedy
 Ann Unterberg
 Sue Erpf Van de Bovenkamp
 Alan N. Weedon
 W. Larry Westbrook
 Mrs. Samuel H. Wolcott III
 Ward W. Woods*
 David T. Schiff*, *ex officio*
 *Steering Committee
 **deceased

LIVING INSTITUTIONS COMMITTEE

Mrs. Gordon B. Pattee, *Chairman*
 Cynthia Lewis Beck
 J. Michael Cline
 Jonathan L. Cohen
 Katherine Lange Dolan
 Gary C. Fink
 William E. Flaherty
 Paul A. Gould
 Brian J. Heidtke
 Anita L. Keefe
 Elyssa Kellerman
 Susan Lytle Lipton
 Howard Phipps, Jr.
 Mrs. Leonard N. Stern
 Daniel K. Thorne
 Mrs. Charles L. Wilson III
 Barbara Hrbek Zucker
 David T. Schiff, *ex-officio*

NEW ENGLAND COUNCIL

Carolyn H. Hall, *Co-Chairman*
 John S. Newberry IV, *Co-Chairman*
 Jodie D. Stevenson, *Co-Chairman*
 Irene Briedis
 Eleanor Briggs
 Julia F. Carpenter
 Mrs. William Cottingham

Mr. and Mrs. Charles W. Downer
 Mark Evans
 Mrs. Benjamin A. Groves
 Mr. and Mrs. Frank J. Hallowell
 Bradley and Beth Hildt
 Mr. and Mrs. Steven Hoch
 Jennifer West Lodge
 Mr. and Mrs. E. Lee Perry
 John Pingree
 Mr. and Mrs. J. Carry Rich
 Binkley C. Shorts
 John G. Stevenson
 Walter G. Thompson
 Frederic Winthrop
 Mr. and Mrs. James. H. Wykoff

NORTHERN CALIFORNIA COUNCIL

Judith H. Hamilton*, *Co-Chairman*
 Christopher B. Hockett*,
Co-Chairman
 Walter C. Sedgwick*, *Co-Chairman*
 John D. Goldman*,
Honorary Chairman
 Mr. John Atwater
 Mr. and Mrs. Geoffrey Baldwin
 Michael W. Bealmear*
 Dr. Walter E. Berger III
 Mary Boardman
 Mary L. Bowerman
 Gay Bradley
 Ted Breck*
 Ron and Susan Briggs
 Mr. and Mrs. William Bucklin III
 David S. Buzby and Susheela Vasan
 C. Diane Christensen*
 Madeline and Jerry Cohen
 Marion Cope
 David Cowan
 Mr. and Mrs. Stephen Dow
 Mr. and Mrs. Jonathan Eddy
 Mr. and Mrs. Donald G. Fisher
 Robert J. Fisher
 Astrid Flood*
 Elizabeth W. Gates
 James R. Gates
 Linda Gladstone
 Susan Grau
 Thomas Hale
 Mrs. William H. Hamm III
 Jo Ann W. Harley
 Mr. and Mrs. William Harris, Jr.
 Charlene Harvey
 Scott R. Heldfond
 Kathryn W. Holmes
 Mr. and Mrs. Richard Holmstrom
 Steven Hussey
 Wende Hurton
 Monica Krick
 Mr. and Mrs. Randy Livingston
 Mrs. Peter McBean
 William McClatchy
 Heather McFarlin
 Patricia McGinnis
 Tom Mudd
 Hon. William A. Newsom, Jr.*
 Terence J. O'Reilly
 Stephanie Osborne*
 Mr. and Mrs. F. Ward Paine
 Anne L. Pattee*
 George D. Phipps
 J. Jay Pierrepont*
 Isis Pikitch
 Stephen C. Pratt
 Brent Ross

Richard W. Ross
 Christopher Seiber
 Dr. Marjorie Smith
 Helen M. Spalding
 Beverly Spector
 Richard J. Thalheimer
 Jennifer A. Urdan*
 Mr. and Mrs. Brad Wentz
 *NCC Executive Committee

SPECIAL EVENTS COMMITTEE

Mrs. Charles A. Dana, Jr.,
Co-Chairman
 Elyssa Kellerman, *Co-Chairman*
 Allison M. Stern, *Co-Chairman*
 Catherine Cahill
 Candace K. Frawley
 Mrs. Nan Kempner
 Ashley R. Schiff
 Virginia Schwerin
 Barbara Tober
 Ann Unterberg
 Mrs. Charles L. Wilson III

TECHNOLOGY COMMITTEE

J. Michael Cline, *Chairman*
 William G. Conway
 Juliet L. Flint
 Paul A. Gould
 Greg Harper
 Kelly McGowan
 Mrs. George K. Moss
 Ori Sasson
 Gary Jon Schneidman
 Walter C. Sedgwick
 John M. Stephenson

**WILDLIFE HEALTH
 SCIENCES COMMITTEE**

Caroline N. Sidnam, *Co-Chairman*
 Pamela Thye, *Co-Chairman*
 Cynthia Lewis Beck
 Mrs. William C. Beutel
 Mrs. David Clark, Jr.
 Jane Drittel
 William E. Flaherty
 Robert Gardiner Goelet
 Leslie L. Groff
 Brian J. Heidtke
 Anita L. Keefe
 Elyssa Kellerman
 John Manice
 Mrs. Roman Martinez IV
 Edith McBean
 Mrs. Howard McMorris II
 Mrs. Howard Oestreich
 Valerie Peltier
 *Richard T. Perkin
 Vivian Picheny
 Charles W. Russell, Jr.
 Virginia Schwerin
 Patrick J. Thomas
 Ann Unterberg
 Mrs. Samuel H. Wolcott III
 David T. Schiff, *ex officio*
 *deceased

**ANIMAL ENRICHMENT
 SUB-COMMITTEE**

Katherine Lange Dolan
 Candace K. Frawley
 Paul A. Gould
 Brian J. Heidtke
 Elyssa Kellerman

WCS STAFF



WCS staff pose with former President Bill Clinton, his brother Roger, and nephew Tyler at the Bronx Zoo in January.

PRESIDENT

Steven E. Sanderson, *President and Chief Executive Officer*
Gail Sheldon, *Executive Assistant*

SCIENTIFIC FELLOWS

P. Dee Boersma, Enrique Bucher, Adalgisa Caccone, Robert DeSalle, Sylvia Earle, Henry Clay Frick II, John Gatesy, Jane Goodall, James F. Grillo, Clifford J. Jolly, Si-Kwang Liu, Thomas E. Lovejoy, Reed Noss, Jeffery Powell, Peter H. Raven, Alison Richard, Oliver Ryder, M.S. Silberman, Michael Soulé, John W. Terborgh, Elisabeth S. Vrba, Edward O. Wilson

WILDLIFE CONSERVATION FELLOWS

Brian Currie, Marvin Druger, Francisco Javier Erize, Laurie Goldstein, Nogah Haramati, Senta Raizen, John Sapienza, Stephen A. Schwartz

WILDLIFE CONSERVATION ASSOCIATES

Sean Aiken, Alvin Breisch, Michaela Catalano, Stephen Factor, Ron Gaeta, Paul Gennis, Mark Goldberger, Stephen Goldstein, Steven Grenell, Lawrence Grunfeld, Richard Hudson, Elliott Jacobson, Lin Klein, Steve Kohn, George Kramer, Mike LaQuaglia, Joseph Levy, Andrew Odum, Andrew Patterson, Kathy Pollina, Peter C.H. Pritchard, Allan P. Reed, Anders G.J. Rhodin, Richard A. Robbins,

Andrew Sabin, Barry Salke, Dwight Sieggreen, Stan Silverman, J.J. Steinberg, Charles Stolar, David Stolloff, Steven Stylianos, Rick Sullivan, George Unis, Karen Weidenheim, William Zovickian

ANIMAL ENRICHMENT PROGRAM SCIENTIFIC ADVISORY COMMITTEE

Frans de Waal, Donald Griffin, Donald Kroodsmma, Katy Payne, Irene Pepperberg, Sue Savage-Rumbaugh

LIVING INSTITUTIONS

Administration

Richard Lattis, *Senior Vice President and General Director, Living Institutions*
Denise McClean, *Assistant Director, Administration*
Marion Merlino, *Executive Assistant*
Randi Winter, *Project Development Coordinator*
Thea Feldman, *Creative Writer*
Beverly Moss, *Secretaries*

Wildlife

James Doherty, *Vice President and General Curator*
James Breheny, *Associate General Curator*

Mammalogy

James Doherty, *Chairman, Carter Chair of Mammalogy*
Patrick Thomas, *Curator*
Colleen McCann, *Curator, Primates*
Peyton West, *Curatorial Intern*
Rebecca Chapnick, *Office Manager*

Marietta Kalk, Claudia Wilson, *Collection Managers*
Michael Lensch, Joseph Mahoney, *Supervisors*

Michael Gormaley, Amy Hanson, Nicole Rella, Bryan Robidas, *Assistant Supervisors*
Robert Terracuso, Kris Theis, *Primary Wild Animal Keepers*
Ralph Aversa, Michelle Blatz, Kitty Dolan, Dominick Dorsa, Gilbert Gordian, Jr., Loraine Hershonik, Florence Klecha, Kathleen MacLaughlin, Douglas Mase, Joan McCabe-Parodi, Jeffrey Munson, Karen Napolitano, Gina Savastano, Gerard Stark, Jose Vasquez, Martin Zyburra, *Senior Wild Animal Keepers*
Avril Armstrong, Adele Barone, Misha Body, Travis Brody, Anthony Buffill, Wendy Camino, Nichole Cerrato, Margaret Chopak, Francisco Cruz, Katherine D'Andrea, Emily Davidson, Tara Delderfield, Derek Demane, Brian DiGiralamo, Glenn Ferguson, Joel Forgione, Amy Fuller, Mary Gentile, Amy Golden, John Goldman, Tracy Hazan, Gregory Heim, Maria Hertneck, Danielle Hessel, Kenneth Jones, Vanessa Jones, Brenda Kramer, Cathy Krestschmar, Crista Kugler, Ann McCaffrey, Michelle Medina, Elizabeth Metzger, Elizabeth Mills, Nichole Morabito, Douglas Morea, Keri Nugent, Jonathan Perez, Noel Pierriello,

Hope Pinckney, Brian Putman, Phillip Reiser, Nancy Rogers, Jason Rowe, Sabrina Squillari, Monika Stroeber, Anneke van Renesse, Jamie Viezbicke, Kelly Wallis, David Wreck, Ferdi Yau, *Wild Animal Keepers*
Matthew Vara, *Supervising Park Maintainer*
Lawrence Derasmo, *Assistant Maintainer*
Rosanne Sembler, *Supervising Secretary*

Ornithology

Donald Bruning, *Chairman and Curator*
Christine Sheppard, *Curator*
Eric Edler, *Collection Manager*
Marcia Arland, *Assistant Collection Manager*
Patricia Cooper, Nancy Gonzalez, Mark Hofling, Kurt Hundgen, Emily Ladwig, Susan Leiter, Frank Paruolo, Yveta Pokorny, Paul Zabarauskas, *Senior Wild Animal Keepers*
Jesse Berner, Gigi Giacomara, Kin Han, Thomas Heinimann, Tasha Hook, Mike Hugenin, Mary Iorizzo, Kevin Jackson, Kenneth Magine, Tim Mohl, Alana O'Sullivan, Jeremy Sanders, Nadja Schwenk, Ramsay Thom, Brian Tierney, Michael Williams, Julianne Wohler, Debra Wolfe, *Wild Animal Keepers*
Mary Evans, *Departmental Assistant*

Herpetology

John Behler, *Curator*
 William Holmstrom, *Collection Manager*
 Samuel Lee, *Senior Wild Animal Keeper*
 Joseph Abene, Frank Indiviglio,
 Melissa Mohring, Lisette Ramos,
Wild Animal Keepers
 Gail Bonsignore, *Supervising Secretary*

Animal Management Services

Nilda Ferrer, *Associate Curator and Registrar*
 Helen Basic, Anne Rockmore,
Animal Records Specialists
 Mariluz Vazquez, *Data and Technical Support Assistant*
 Carmen Guzman, *Animal Shipping Coordinator*
 Lorraine Lage, *Records Intern*

Wildlife Information Services

Steve Johnson, *Manager*
 Dale Boles, *Information Services Librarian*
 Dianne Conner, Eva Raj, *Library Assistants*

Operations

Mitchel P. Greene, *Vice President*
 Kenneth Hutchinson, *Deputy Director*
 Richard Luniewski, *Assistant Director*
 Paul Skarbowski, *Project Manager*
 Michael Santomaso, *General Foreman*
 Amie Merlino, *Executive Assistant*

Construction

Jose Baez, Parmanand Kesraj,
 Anthony Laino, Thomas Reilly,
 Marconi St. Hill, Robert Stillwell,
 Enzo Tedesco, *Supervising Maintainers*
 Walter Almodovar, Anthony Bigone, Benedetto Cardillo,
 Joseph Corry, Francis Cushin,
 Nelson Flecha, John Galloway,
 Robert Gonzalez, Alfred Hart,
 John Illenye, Gregory Kalmanowitz,
 Roopnarine Maharaj, Jose Martinez,
 Ramon Mendoza, Michael Merkin,
 Alison Modeste, Winston Newton,
 Renzo Scarazzini, Edward Scholler,
 Onix Santana, Robert Santarelli,
 Michael Scott, Nathaniel Torres,
 Carlos Yera, *Maintainers*

Maintenance

Raymond Kalmanowitz, *Superintendent*
 Frank Suarino, *Assistant Superintendent*
 Wayne Harris, *Park Foreman*
 Betzaida Colon, *Secretary*
 Anthony Corvino, *Supervising Maintainer*
 Kurt Pollack, John Tralongo,
Maintainers
 Kevin Bermeo, William Castro, Jr.,
 Abraham Crespo, Gabriel Gomez,
 Santos Gonzalez, Othniel Gully,

Mary Martin, Jose R. Rivera, Michael Shabroni, *Assistant Maintainers*
 Jonnie Ferreira, *Supervising Attendant*
 Alberto Bonilla, John Bruno, Jr.,
 Migdalia Cordero, Peter Drosopoulos,
 Maria Estrada, Porfirio Gutierrez,
 Carmen Guzman-Caraballo,
 Keith Harris, Demond Jones,
 Sonia Kalmanowitz, Louis Landi,
 Manuel Moura, Maria Muniz,
 Eduardo Nelson, Pax Nunez-Cacho,
 Theodore Olson, Jose Palacios,
 Gerard Palinkas, Jose Pimentel,
 Marta Rivera, Victor Rodriguez,
 Natividad Ruiz, Eduardo Vidal,
 Rosemarie Villegas, Raymond Zelenka,
Attendants
 Manuel Garcia, *Supervising Motor Vehicle Operator*
 Joseph Gutleber, George Izquierdo,
 Joan Peralta, *Motor Vehicle Operators*

Cogeneration

Michael Henry, *Manager, Electric Services*
 Alfred Jensen, *Supervisor*
 Mark Anderson, Dave Bailey,
 Farouk Baksh, Hervan Brown,
 Edwin Otero, Keith Reynolds,
Maintainers

Horticulture

Ray Oladapo-Johnson, *Curator*
 Wayne Bourdette, *Manager*
 Gregory Smith, *Supervisor*
 James Coelho, Stuart Goldstein,
 Robert Herkommer, David Hyde,
 Juan Albert Peralta, *Gardeiner*
 Shizuko Aiseki McElliot, Dave Bailey,
 James Burns, Megan Cassidy,
 Paul Fialkovic, Edwin Otero,
 Lloyd Pearson, Anthony Quaglia,
 Keith Reynolds, David Rosenthal, *Maintainers*

ADMISSIONS AND TRANSPORTATION

Sean Mcallister, *Director*
 Phyllis Rosenberg, *Assistant Director*
 Al Clapsaddle, *Manager of Administration*

Bronx Zoo Admissions and Parking

Melanie Coley, *Assistant Manager*
 Wilson Fenty, Frank Muccioli,
 Chris Papaleo, *Supervisors*
 Marilyn Mathurin, *Department Assistant*
 Roberto Oquendo, Norman Ross,
 Mildred Vargas, *Ticket Agents*

Transportation

Barrington Burgess, *Manager*
 James Fitzgerald, Kevin Franqui,
 Maryann Ruberto, *Supervisors*

Monorail

Wayne Gura, *Manager*
 Christopher Filomio, *Assistant Manager*
 Tito Ramos, *Supervisor*

New York Aquarium

Admissions and Parking
 Joseph Minieri, *Supervisor*
 Florence Goldberg, *Ticket Agent*

WILDLIFE HEALTH SCIENCES

Robert Cook, *Chief Veterinarian and Vice President*
 Joanne Ciuti, *Office Manager*
 Susan Cardillo, Lisa Eidlin, *Hospital Supervisors*
 Deborah F. Harris, *Pathology & Clinical Records Secretary*

Clinical Care

Paul Calle, Bonnie Raphael, *Senior Veterinarians*
 Terry M. Norton, *Clinical Veterinarian, St. Catherine's Wildlife Survival Center*
 Stephanie James, Barbara Mangold,
Clinical Veterinarian
 Eric J. Baitchman, *Pfizer Clinical Resident*
 Kristine Smith, *Clinical Resident*
 Pamela Manning, Nina Palmer-Sweeney,
Senior Veterinary Technicians
 Peter Psillas, *Veterinary Technician*
 Dolores Sanginito, *Clinical Secretary*

Pathology

D McAloose, *Department Head*
 Patricia Walsh, *Pathology Technician*
 Alfred Ngbokoli, *Laboratory Supervisor*
 Andre D. Jules, *Histotechnician*

Field Veterinary Studies

William Karesh, *Field Veterinarian & Department Head*
 Lisa Starr, *Program Coordinator*
 Angela Yang, *Program Assistant*
 Veronica Greco, *Veterinary Technician*
 Steven Osofsky, *Senior Policy Advisor/Wildlife Health*
 Marcela Uhart, *Latin American Field Veterinarian*
 Rodolfo Nillar Gutierrez, *Latin American Wildlife Health Fellow*
 Michael D. Kock, Patricia E. Reed,
Africa Field Veterinarians
 Kathy Quigley, *Western States Veterinary Coordinator*

Animal Commissary

Joseph Briller, *Manager*
 Antonio Aviles, *Zoo Park Maintainer*
 Moruf Egbo, Michael Marano,
Senior Wild Animal Keepers
 Alfredo Hernandez, John Andrew King,
Wild Animal Keepers
 Michael Cruz, *Assistant Maintainer*

Human Health Services

Dorothy M. Keane, *Nurse Manager*
 Mary Agoglia, *Nurse*

Pest Control

Michael Toro, *Manager*
 Joseph White, *Applicator*

EXHIBITION AND GRAPHIC ARTS

John Gwynne, *Vice President, Chief Creative Officer*
 Susan Chin, *Director, Planning & Design*
 Eileen Cruz-Minnis, *Manager, Administration*
 Fiona Bayly, *Executive Assistant*
 Christina Brand, *Department Assistant*
 Lorraine Cohen, *Project Assistant*

Architecture, Exhibition Design and Production

Walter Deichmann, *Creative Director, Exhibits*
 Philip Drew, *Senior Project Designer*
 Jenny Lee, Brian Morrissey, *Project Managers*
 Jon Dohlin, *Assistant Project Director*
 Phillip Pond, *Architectural Designer*
 Sara Tsiropinas, *Junior Architectural Designer*
 Zarnaz Fouladi, *Junior Architectural Intern*
 Shane LeClaire, *Architectural Intern*
 Gary Smith, *Senior Manager, Exhibit Production*
 Matthew Aarvold, Jean Kolody-Egel,
Senior Exhibit Specialists
 Carolyn Fuchs, Nelson Prado Jr.,
 Anthony Rodgers, Joseph Wilson,
Exhibit Specialists
 Ruth Marshall, *Exhibit Sculptor*

Interpretive Programs, Graphic Design and Production

Johnny Fraser, *Director, Interpretive Programs*
 Zipora Fried, Sharon Kramer-Loew,
Creative Directors, Graphics
 Sitara Cave, *Manager, Public Interpretation*
 Paxton Barnes, *Exhibit Developer*
 Paul Heyer, *Manager, Exhibit Production*
 Kimio Honda, *Senior Graphic Designer*
 Douglas Allen, George Dremeaux,
 Nancy Fischer, Vanah Harris,
 Staci Mckeown, Laura Sylvester,
 Amanda Wilson, *Graphic Designers*
 Helene Alonso, Julia Lin, Eric Van,
 Alexander Wolf, *Graphic Interns*
 Nelson Then, *Production Coordinator*
 Christopher Maune, *Supervisor, Graphic Production*
 Donald O'Leary, William Rios,
 Lawrence Yoches, *Graphic Specialists*

New York Aquarium Exhibits and Graphic Arts

Dennis Ethier, *Manager*
 Yuliya Stanislovski, Jason Watson,
Graphic Designers
 Sandra Halvorsen, *Graphic Intern*
 Brian Donnelly, *Exhibit Artist*
 Michael Sukys, *Exhibit Specialist*

WCS STAFF

Central Park Exhibits
and Graphic Arts
Julie Zolot, *Graphic Designer*

SPECIAL ANIMAL EXHIBITS AND OPERATIONS

Children's Zoo, Butterfly Zone,
and Animal Rides
Suzanne Daley, *Operations
Supervisor*
Diana Tancredi, *Supervisor*
James Dauterman, Stephanie
Derkash, Ruth Iannuzzi, Shakira
Paula, *Assistant Supervisors*
Patricia Ortiz, Luke Torres, *Senior
Animal Facilities Aides*

Safari Greeter Program
Sara Morse, *Supervisor*

Bronx Zoo Security

Walter Silbert, *Manager*
Raynor Mattson, *Assistant
Manager*
Thomas Rodahan, *Supervisor*
Luis Barreto, Steven Carr, Winston
Hill, Steven Pippa, Gregory
Upshaw, James Williams, *Park
Maintainers*
Haseeb Baksh, Jimmy Barreto,
Michael Burns, Ivonne Collazo,
Weston Hill, Bernardo Nelson,
Jesus Padilla, Gary Robinson,
Kennedy Samuels, Donald
Thompson, Sue Whitstye, Ralph
Zamboli, *Assistant Park
Maintainers*

NEW YORK AQUARIUM

Paul Boyle, *Director*
Cynthia Reich, *Deputy Director,
Aquarium Administration*
Barbara Newman, *Project Assistant
to the Director*
Joan Shovlin, *Project Assistant*

Animal Husbandry

David DeNardo, *General
Curator/Director of Animal
Operations*
Paul Sieswerda, *Aquarium Curator*
Paul Loisel, *Associate Curator,
Freshwater Fish*
Kevin Walsh, *Director of Training*
Martha Hiatt, Guenter Skammel,
Senior Trainers
Patricia Bulko, Kristin Gagnano,
Christine Groshesky-Bowie,
Trainers
Nicole Pisciotta, Joanne Sottile,
Animal Enrichment Interns
Hans Walters, Michael Morgano,
Supervisors
JoAnne Basinger, Frank Greco,
Leslie Leffler, Wayne Stempler,
Senior Keepers
Jamie Atwell, Nicole Carroll, Mike
Duggan, Gina Fisher, Brenda
Frost, Tracey Horacek, Amy

Messbauer, Stephanie Mitchell,
Paul Moylett, Werner Schreiner,
Thomas Yanneli, *Keepers*
Catherine McClave, *Laboratory
Manager*
Jeanne Smith, Susan Ursitti,
Laboratory Technicians
Patricia Toledo, *Assistant
Laboratory Technicians*
Mary Messing, *Administrative
Assistant, Librarian*
Dick Blankfein, *Dive Safety
Officer/Volunteer Dive Program,
Animal Husbandry, and OLMS
Volunteer Coordinator*

Operations

Mitchel P. Greene, *Vice President*
Gilbert Francisco, *Director*
Melvin Pettit, *Manager, Facilities*
William Sheehan, David Sheurich,
Supervising Maintainers
Michael Budney, Richard Bullen,
Richard DiStefano, Raul
Domenech, Alfred Escalera,
Michael Facciolo, Winstrol
Hosein, Timothy Magee, John
Moore, Kenneth Pritchett, Ralph
Ramos, Fitz-Albert Reynolds,
Michael Tine, Tony Vargas,
Dennis Walsh, *Maintainers*
Dante Delamos, *Supervisor,
Buildings and Grounds*
Joyce Cangle, Patricia Monica,
Supervising Attendants
Robert Caraballo, Derrick Coleman,
José Gonzalez, Jarod Hagan, Peter
Inesti, Ed Lebron, Henry Lighty,
Lorena Miranda, Ernesto Ortiz,
Dely Ramos, Alicia Shannon,
Stanley Wasserman, *Attendants*
Janis Robinson, *Administrative
Assistant*
Tonya Thomas, *Clerk*

Security

Sal DeFeo, *Security Manager*
Joseph Knowles III, *Assistant
Manager*
Carlos Martinez, *Supervisor*
Samuel Black, Ricky Jackson, Owen
Mayhew, *Maintainers*
Diana Barreto, Richard Jarus,
Kenton Spence, Henry Thomas,
Michael Wallace, Hector Weir,
Assistant Maintainers

OSBORN LABORATORIES OF MARINE SCIENCES

Paul Boyle, *Director, Senior Research
Scientist, Microbial Ecology*
Diana Reiss, *Senior Research
Scientist, Marine Mammal
Behavior*
Heidi Lyn, *Research Associate,
Marine Mammal Behavior*
Andrew Baker, *Associate Research
Scientist, Coral Biology and
Molecular Ecology*

William Mott, *Director, The Ocean
Project*
Paul Loisel, *Senior Research Scientist,
Freshwater Conservation Biology*
Maya Natenson, *Associate
Research Technician*
Samuel Jones, IV, *Assistant
Research Technician*

Research Associates

Andrew Baker, *Coral Biology
& Molecular Ecology*
Betty Borowsky, *Invertebrate
Biology*
John Chamberlain, *Paleobiogeology*
David Franz, *Environmental
Biology*
Fred Koontz, *Wildlife Ecology*
William Keene, *Coral Reef Ecology*
Irene Pepperberg, *Animal Behavior*
Vincent Pieribone, *Marine
Molecular Biology*
Martin Schreiber, *Aquaculture
and Endocrinology*
John Tancredi, *Ecotoxicology*
Dan Tchernov, *Marine Molecular
Biology*
John Williams, *Marine Bioactive
Chemistry*
Kim Barlow, Diana Buchman,
Manolo Castellote, Mike
Morgano, Evelyn Neunteufel,
Craig Starger, Hans Walters,
Graduate Students

CENTRAL PARK ZOO

Dan Wharton, *Director*
Elizabeth Jazines, *Administrative
Assistant*
Neomi Medina, *Receptionist*

Animal Department

John Rowden, *Curator*
Yula Kapetanakos, *Assistant
Curator*
Bruce Foster, *Collection
Manager*
Anthony Brownie, *Supervisor*
Heather Gordon, Robert Gramzay,
Mark Hall, Kristine Keating,
Senior Wild Animal Keepers
Celia Ackerman, Charles Braun,
Luis Jimenez, Susan Macleod,
Raymond Maguire, Leonard
Martinez, Susan Purtell, Amaury
Quiñones, John Roderick, Erin
Sermak, Jeremy Tuschak, Keith
Walker, *Wild Animal Keepers*
David Autry, *Life Support Systems
Technician*
Bernadine Leahy, *Senior Veterinary
Technician*

Horticulture

J. Todd Comstock, *Horticulturist*
John Collins, *Assistant
Horticulturist*
J. Todd Comstock, *Horticulture
Supervisor*

Operations and Maintenance

Robert Gavlik, *Manager*
Arkadiusz Krasuski, *Assistant
Manager*
Igor Laboutov, Mong Lee,
Supervising Maintainers
Wayne Martin, Michael Nedd,
Marlon Ragbir, Jose Torres,
Maintainers
Alistair Johnson, Arkady Guttman,
Bo Tain, *Assistant Maintainers*
Santa Alequin, Crystal Kinlaw,
Audrey McAllister, Valdimir
Pierret, Tyrone Pinkney, Edwin
Rivera, Efran Rivera, Altagracia
Ronnie, Lakisha Terry, *Attendants*
Edwina Jackson, *Secretary*

Security/Admissions

Thomas Lennox, *Manager*
Frank Cangiarella, Stephen Carey,
Assistant Managers
Fitzroy Neufville, *Maintainer*
John Bohan, Felito Cuevas, Carlton
Davidson, Alberto Gonzalez,
Marilyn Maldonado, Frederick
Miller, Jaime Pagan, Everton
Pearson, Rob Sutherland,
Christopher Todd, Ramanan
Veerapen, Eddie Wright, *Assistant
Maintainers*

Admissions

Sonia Colon, Melissa Lightbourne,
Sookiah Maharaj, Celvis Rock,
Ticket Agents/Cashiers

PROSPECT PARK ZOO

Don Moore, *Director*
Betty Allen, *Senior Secretary*
Elizabeth McCrae, *Receptionist*

Animal Department

Ric Urban, *Assistant Curator of
Animals*
Shoshanna Abeles, *Supervisor*
Mark Halvorsen, *Assistant
Supervisor*
Kristen Chew, Jennifer Skelley,
Frances Verna, *Senior Wild
Animal Keepers*
Keith Dupont, Astra Kalodukas,
Tina Koban, Dennis Maroulas,
Daniel Matos, Angela Matthews,
Jonathan McKune, Jamie
Quendo, Krista Von Ronne,
Andrea White, *Wild Animal
Keepers*
Karen Wone, *Veterinary Technician*

Horticulture

Kai Hinkaty, *Horticulturist*
James Russell, *Assistant Horticulturist*

Operations and Maintenance

Paul Baksh, *Manager*
Evelyn Alexander, *Secretary*
Oscar Ceron, Norbett Wescott,
Maintainers

Carlos Burga, Michael Fazzino, Reginald McKenzie, Martin Ricketts, Chaitram Singh, Romualdo Vazquez, *Assistant Maintainers*
Wayne Peters, *Senior Attendant*
James Byrne, Elizabeth Chotalal, Luis Cruz, Donell Gatling, Judy Hankins, Eisha Johnson, Aretha Thompson, *Attendants*

Security

John Balestrieri, *Manager*
Thomas Geraghty, *Assistant Manager*

David Evans, *Supervisor*
Wilbert Barton, Milton Cameron, Lorenzo Cordero, Harold Davis, Paul DeJesus, Rogelio Dickens, Jade Dobbs, Vincent Ferguson, Allie Jackson Patrick Osage, *Assistant Maintainers*

Admissions

Joanne Carillo, Lola Chung, Chennel Harris, Jennifer Soto, *Ticket Agents*

QUEENS ZOO

Robin Dalton, *Director*

Animal Department

Scott Silver, *Curator*
Anne Marie O'Brien, *Administrative Assistant*
James Gillespie, *Supervisor*
Donna-Mae Nelson, *Assistant Supervisor*
Dana Demond, Marcy Farley, Laura Schwarz, Raul Vasquez, *Senior Wild Animal Keepers*
Megan Fries, Marcos Garcia, Ira Goldman, Paul Kmiotek, Susan Makower, David Morales, Angelo Ordonez, James Putnam-Ethimiou, Samaly Pastor, Mark Quadrozzi, Erin Rosebrock, Verna Serra, *Wild Animal Keepers*
Kimm Koocher, *Veterinary Technician*

Horticulture

Louis Matarazzo, *Horticulturist*
Robert Sniffen, *Assistant Horticulturist*

Operations and Maintenance

Jeffrey Blatz, Anthony Boodoo, *Maintainers*
Rafael Genao, Krishna Juman, Eugene Teixeira, *Assistant Maintainers*
Carol White, *Supervising Attendant*
Krishna Dookran, Myriam Martinez, Edwin Quinones, Carlos Valentin, Amgustella Zeko, *Attendants*
Dawn Richards, *Secretary and Telephone Operator*

Security

Charles Anton, *Manager*
Frank Francavilla, *Assistant Manager*
John Patrissi, *Supervisor*

Paul Fairall, Leonard Golino, Jason Juman, Anthony Mark, Garfield McEachron, Carlton Nelson, Rafael Nieves, William Rosado, Kennedy Samuels, Larry Saunders, Allan Taylor, *Assistant Maintainers*

Admissions

Tina Anderson, Joanne Crespo, Alicia Prashad, *Ticket Agents*

ST. CATHERINES WILDLIFE SURVIVAL CENTER

Jeffrey Spratt, *Curator*
Dan Beetem, Jenifer Hilburn, Robert Lessnau, *Senior Zoologists*
Deborah Belgio, Katie Higgins, George Middleton, Jennifer Savage, *Zoologists*
Terry Norton, *Veterinarian*
Kathryn Lurtz, *Veterinary Technician*
Kay Zack, *Office Assistant*
Royce Hayes, *Superintendent, St. Catherines Island*

ENVIRONMENTAL EDUCATION

Annette Berkovits, *Senior Vice President, The Chauncey Stillman Chair in Wildlife Education*

BRONX ZOO EDUCATION

Donald C. Lisowy, *Curator*
Mary DeRosa, *Manager, Support Services*

GENERAL AUDIENCE AND SCHOOL GROUP PROGRAMS, GRADUATE INTERNSHIPS, AND TEACHER TRAINING

Thomas Naiman, *Director, Curriculum Development and International Education Programs*
Ann Robinson, *Director, National Programs*
Lauraine Merlini, *Assistant Director, National Programs*
Sydell Schein, *Manager, Program Services*
Lee Livney, *Manager, Federal Grants*
Sarah Gruber, *Senior Curriculum Developer*
Nalini Mohan, *International Teacher Trainer*
Mark Eisenhandler, *Teacher Trainer*
Karen Thomson, *Specialist, Program Development and Evaluation*
Claire Deroche, *Coordinator, Friends of Wildlife Conservation*
Ronald Griffith, *Senior Instructor*
Danielle Forlano, *Secondary Instructor*
Ilyssa Gillman, *Supervisor, Elementary Education*
Tracy Baczynski, Anthony Cogswell, Kevin Cox, Thomas Frankie, Gabrielle Kushner, *Elementary Instructors*
Kathleen LaMattina, *Education*

Programs Liaison
Sheila Goldberg, *Secretary*
Yvonne Morgan, *Program Registrar*
Cayra Carroll, *Divisional Administrative Assistant*
Carlos Rosado, *Administrative Assistant*
Erin Fitzgerald, *Distance Learning Instructor*
Nancy Sosnow, *Administrative Officer*
Judith Unis, *Coordinator, Project TRIPS*
Joy Bramson, *Coordinator, Project IMAGINE*
Emilie Zaslav, *Coordinator, Wildlife Science Careers Program*

NEW YORK AQUARIUM EDUCATION

Merryl Kafka, *Curator*
Lisa Mielke, *Assistant Curator*
Robert Cummings, *Senior Instructor*
Kristen Deckert, *Instructor Field Programs*
Melissa Carp, *Instructor*
Gary Holliday, *Coordinator, Outreach Services*
Susan Ruocco, *Volunteer Coordinator*
Maria Volpe, *Secretary*
Polly Catanzaro, *Senior Reservationist*

CENTRAL PARK ZOO EDUCATION

Robert Sikora, *Curator*
Laura Penn, Nancy Schwartz, *Instructors*
Jane Donnelly, *Volunteer Coordinator*
Jonathan Ellers, *Theater Coordinator*
Miriam Hernandez, *Secretary*

PROSPECT PARK ZOO EDUCATION

Theresa Fannery, *Curator*
Amanda Eyrich, Karalyn Rodenkirchen, Kathryn Werntz, *Instructors*
Heidi Ruffler, *Volunteer Coordinator*
Janice Martin, *Secretary and Registrar*
Elizabeth McCrae, *Receptionist*

QUEENS ZOO EDUCATION

Thomas Hurtubise, *Curator*
Shellie Kalmore, Jennifer Pereira, *Instructors*
Paulette Torres, *Secretary and Registrar*

INTERNATIONAL CONSERVATION

John Robinson, *Senior Vice President and Director, Joan O. L. Tweedy Chair in Conservation Strategy*
George Schaller, *Vice President, Science and Exploration, Ella Milbank Fosby Chair in Wildlife Conservation*
Amy Vedder, *Vice President, Living Landscapes*
Kent Redford, *Vice President, Conservation Strategy*
William Conway, Maurice Hornocker, *Senior Conservationists*
James Deutseh, *Director, Africa*
Joshua Ginsberg, *Director, Asia*
Andrew Faber, *Director, Latin America*
William Weber, *Director, North America*
Martha Schwartz, *Director, Program Administration*
George Amato, *Director, WCS Institute*
Elizabeth Bennett, *Director, Hunting and Wildlife Trade*
Ellen Pikitch, *Director, Ocean Strategy*
Alan Rabinowitz, *Director, Science and Exploration*
Liz Lauck, *Acting Director, Marine*
Carlos Quintela, *Associate Director, Conservation Finance*
Eric Sanderson, *Associate Director, Landscape Ecology and Geographic Analysis*
Sharon Guynup, *Editor, State of the Wild, WCS Institute*
Felicity Arengo, *Assistant Director, Latin America*
Helen Crowley, Graeme Patterson, *Assistant Directors, Africa*
Jodi Hilty, *Assistant Director, North America*
Linda Krueger, *Assistant Director, Asia*
Samantha Strindberg, David Wilkie, *Monitoring Specialists, Living Landscapes*
Elizabeth Babcock, *Constantine S. Niarchos Fellow in Marine Conservation*
Angelica Capeci, Lissette Pavaiseau, *Program Managers, Latin America*
Rebecca Cerroni, *Program Manager, Marine*
Kathleen Conforti, *Program Manager, Science and Exploration*
Camilla Fritze, *Program Manager, Asia*
Janice Davis, Gillian Woolmer, *Program Managers, WCS Institute*
Dawn Greene, *Program Manager, North America*
Meade Love Penn, *Program Manager, Conservation Training*
Sylvia Stone, Yemi Tessema, *Program Managers, Living Landscapes*
Louis D'Souza, Monica Wrobel, *Program Managers, Africa*
Todd Olson, *Program Assistant*
Rose King, Christina Ojar, Nick Raitelu, Alexandra Rojas, April Stanley, Katia Suero, *Administrative Assistants*
Jillian Burgess, Jesse Chapman, Denise Guerra, Cristyan Nevers, Brittany Nuttall, Shannon O'Brien, Amy Pokempner, Sarah Robin, Jessica Rogers, *Interns*

WCS STAFF



WCS Africa Program staff and staff from New York gathered at a regional meeting in Gabon.

FIELD STAFF

Craig Groves, David Western,
Senior Conservationists

Marcio Ayres, John Hart, *Senior Conservation Zoologists*

Terese Hart, Michael Klemens,
Senior Conservation Ecologist

Archie Carr III, Graham Harris,
Matthew Hatchwell, Michael
Painter, Carolina Murcia,
Regional Coordinators

Claudio Campagna, Ullas Karanth,
Dale Lewis, Tim McClanahan,
Dale Miquelle, Tim O'Brien,
Andrew Plumptre, John
Thorbjarnarson, *Conservation
Zoologists*

Joel Berger, Keyt Fischer, Margaret
Kinnaird, Andres Novaro, John
Weaver, Lee White, Steve Zack,
Conservation Ecologists

Ramon Bonfil, Daniel Erickson,
Cathi Lehn, *Conservation
Scientists*

James Barborak, Mario Boza,
Michael Fay, Richard Margoluis,
Nick Salafsky, *Conservationists*

Steve Blake, Dee Boersma, Eduardo
Carrillo, Charles Foley, Laurence
Frank, Cynthia Lagueux, Tony
Lynam, Andrew Mack, Murdoch
McAllister, Alastair Mcneilage,
Bruce Miller, Carolyn Miller,
Andrew Noss, Jose Ochoa, Ferrel
(Loki) Osborn, Howard
Rosenbaum, Catherine Sahley,
Pablo Yorio, Peter Zahler,
Associate Conservation Zoologists

Jon Beckmann, John Beecham,
Cheryl Chetkiewicz, Pete
Coppolillo, Tim Davenport, Isaac
Goldstein, Jeffrey Jorgenson,
Gustavo Kattan, Rob Lee, Joe
Liebezeit, Fiona Mansels, Nicole
Muloko-ntoutoume, Lisa

Naughton, David Olson, Lilian
Painter, Justina Ray, Damian
Rumiz, Toni Ruth, Nina Schoch,
Robert Wallace, Joe Walston,
Debra Wright, *Associate
Conservation Ecologists*

Andrew Baker, Melvin Gumsal, Luke
Hunter, Michael Marnane,
Associate Conservation Scientists

Lanto Andriampianina,
Inogwabini Bila-Isia, Nicholas
Blondel, Andrew Branson, Marcia
Brown, Rene Byers, Oscar Castillo,
Cynthia Chin, Raghu Chundawat,
Joshua Cinner, Connie Clark,
Tracy Clark, Bryan Curran, Peter
Davidson, Etienne Delattre, Will
Duckworth, Paul Elkan, Sarah
Elkan, Linda Farley, Roger Fotso,
Mark Gateley, Janet Gibson,
Michale Glennon, Fred Goes, John
Goodrich, Troy Hansel, Michael
Hedemark, Simon Hedges, David
Hoyle, Omari Ilambu, Michael
Jacobs, Arlyne Johnson, Amanda
Jorgenson, U Saw Tun Khaing,
William Kiene, Akoi Kouadio,
Heidi Kretser, Innocent Liengola,
James Mackinnon, Silvio
Marchini, Michel Masozera, Roan
McNab, Mike Meredith, Jerome
Mokoko, David Moyer, Leonard
Mubulama, Ian Munanura,
Robert Mwinyihali, U Than
Myint, David Nkuutu, William
Olupot, Nigel Orbell, Isaiah
Owiunji, John Paczkowski,
Richard Parnell, Colin Poole, John
Poulsen, Herilala Randriamahazo,
Madhu Rao, Gleb Raygorodetsky,
Cathy Schloeder, Brian Smith,
Caroline Stem, Emma Stokes,
Richard Tshombe, Andrea
Turkalo, Endi Zhang, *Associate
Conservationists*

Cathi Campbell, Kate Hanson, Kirk
Olson, *Assistant Conservation
Zoologists*

Julian Avery, Brent Brock, Polly
Buotte, Hilary Cooke, Cecily
Costello, Kerry Farris, Kerri
Frangioso, Rachel Gray, Leila
Hadj-Chikh, William Harrower,
Brian Housel, Kristine Inman,
Robert Inman, Sean Matthews,
Tony McCue, Jesse Newby,
Deborah O'Neill, Michael
Sawaya, Boone Smith, Adrian
Treves, Rachel Wigglesworth,
Anthony Wright, *Assistant
Conservation Ecologists*

Bruno Baert, Ahab Downer, Jean
Gael Collomb, Leslie Karasin,
Kirk Olson, Josh Ponte, Colby
Prevost, Jon Rieck, Christine
Santora, Kendall Watkins,
Assistant Conservationists

Amanda Garcia, Patricia Harris,
Valerie Hickey, Nick Miller,
Linda Percy, Jocelyn Peskin,
Luccianie Raonison, *Program
Managers*

Kathy O'Hara, Jennifer Schmitz,
Administrative Assistants

DEVELOPMENT AND MEMBERSHIP

Jennifer Herring, *Senior Vice
President*

Carolyn Bronson, *Executive
Assistant*

Grace Ragone, Mary Ann
Venticinque, *Office Clerks*

INSTITUTIONAL DEVELOPMENT

Luanne McGrain, *Assistant Vice
President*

Gela Jones, *Executive Assistant*,
Susan Cooper, *Assistant Director*,
Development and Membership IS

Mary Beth Gaffney, *Associate
Manager*

Patricia Berry, *Development
Services Assistant*

Lisa Synoradzki, *Assistant Director*,
*Program Development and
Foundation Support*

Joella Glaude Sawyer, *Associate
Manager, Foundation Support*

Dale Ann Brooks, *Associate
Manager, Corporate Support*
Michelle Kahn, *Assistant Manager*,
Special Events

Lisa Donnelly, *Administrative
Assistant*

Nicole Luck Heckman, *Associate
Manager, Individual Support*
Mary Ann Spadacini, *Secretary*,
Individual Support

MAJOR GIFTS AND PLANNED GIVING

Patricia B. Park, *Director, Major
Gifts*

Rebecca Bean, *Assistant Director*,
Planned Giving and Stewardship

Abigail Hourwich, *Manager, Research*
Adah Sylvan, *Associate Manager*,
Major Gifts

Chandra Towers Blatt, *Assistant
Manager*

Ann Phelan, *Secretary*

INTERNATIONAL CONSERVATION PROGRAM SUPPORT

Susan Hannah, *Director*

Sophia Priimps, *Associate Director*,
Major Gifts

Olivia van Melle Kamp, *Assistant
Director, National Support*

Linde Ostro, *Assistant Director*,
Foundation Support

Susan Monserrat, *Consultant*,
Foundation Support

Riam Sarah Knapp, Matthew

O'Brien, Kathleen Wright,
Assistant Managers, Foundation Support

Stacy Szewczyk, *Assistant Manager, Individual Support*

Silvina Wehmuller, *Assistant Manager, National Support*

Pat Cronin, *Secretary, National Support*

Felicia Hamerman, *Development Assistant*

MEMBERSHIP

Shari Romar, *Director*

Kathleen Allard, *Manager*

Meredith Buono, *Assistant Manager*

Laura Lauria, *Assistant Manager, Membership Programs*

Lincoln O'Brien, *Coordinator, Membership Communications*

Lynette Ardis, *Manager, Site Sales*

Thomas Traegler, *Supervisor, Site Sales, Bronx Zoo*

Kendra Whitmore, *Assistant Supervisor, Site Sales, Bronx Zoo*

Victoria LeGoff, *Supervisor, Site Sales, City Zoos*

Cynthia Alleyne, *Coordinator, Membership Services*

Annette Jeremia, *Associate Coordinator, Membership Services*

Dorothy Moura, *Membership Services Assistants*

Laura Garcia Wanda Moore,
Membership Services Assistants

FINANCIAL AND ADMINISTRATIVE SERVICES

Patricia Calabrese, *Senior Vice President and Chief Financial Officer*

Robert Calamo, *Director, International Financial Systems Project*

Linda McKeiver, *Executive Assistant*

Evans Randolph, Gerard Tibbs,
Mailroom

BUDGET AND FINANCIAL PLANNING

Sarah Gillman, *Director*

Regina Burke, *Capital Budgets Assistant Director*

Cecile Koehler, *Financial Analyst*

FINANCIAL SERVICES

John Hoare, *Vice President and Comptroller*

Ronald Ventarola, *Assistant Comptroller*

Gwendolyn Cleary, *Chief Accountant*

Albert Corvino, *Director, Restricted Fund and Government Grants Accounting*

Lori Bueti, *Executive Secretary*

Talia Ann Aliberti, *Payroll Manager*

Joan Jones, *Accounts Payable Manager*

Howard Forbes, *Manager, Cashroom, Guest Services Accounting*

Jacklyn Bui, Michael Regan, Alicia Wyatt, *Accountants*

Donna M. Marano, Michelle Mora, Isobel Onorato, Delores Papaleo,

Supervisors

Sonya Meltzer, Maureen Salvatto,
Senior Clerks

Ernesto Banaag, Rose Gilberti,
Madurie Kowlasar, Jean McNally,

Annabelle Olmeda, Sarah Pacyna,
Yadiera Torres, *Clerks*

Mary K. Earley, Julieanne Hollingsworth,
Vivian Villa, *Cashiers*

HUMAN RESOURCES

Miriam Benitez, *Vice President*

Zulma Rivera, Earline Newton,
Assistant Directors

Richard Sowinski, *Safety Director*

Carolyn Angiolillo, *Manager*

Danielle Thomas, Tawanda Williams, *Recruiters*

Isalene Harris, April Hobson,
Monique Santiago,

Administrative Assistants

Hayat Moreno, *Clerk*

Richard Steck, *Supervisor,*

Switchboard

PURCHASING

James Morley, *Director*

Frances Lupo, *Supervisor*

Walter Aufseeser, *Purchasing Agent*

Brenda Diaz, *Purchasing Specialist*

Jezebel Cordova, Gina Liranzo-
Estrada, *Clerks*

BUSINESS SERVICES

Robert Moskovitz, *Vice President*

Phil Conte, *Director, Planning and Administration*

Robert DiCesare, *Manager, IT Systems & Inventory Control*

Helen Browning, Ileana Figueroa,
Maureen Garvey, Yvonne

McNeill, *Administrative Assistants*

Restaurants

Gerard Buter, *Director*

Alfredo Piscitelli, *Assistant Director*

Antonio Vidal, *Executive Chef*

John Lipari, *Kitchen Manager*

Martine Arora, *Area Manager*

Tarik Castro, Angella Modeste,
Melanie Otero, *Area Supervisors*

Tony Urrico, *Storekeeper*

Virginia Castaldi, Angeles Navedo,
Brenda Williams, *Unit Managers*

Virgin Colon, Celenia Garcia,
Assistant Unit Managers

Jorge Martinez, Jeanette Ojeda,
Antonio Petrone, *ACE Specialists*

Merchandise

Mike Casella, *Director*

Rosanne Pignatelli, *Merchandise Manager*

Valerie McKee, Margaret Murphy,
Area Managers

Charles Braithwaite, Joanna Duran,
Area Supervisor

James Lo, *Storekeeper*

Nancy Izquierdo, Maria Ortega,
Patricia Peters, *ACE Specialists*

Albert Martinez, Margarita

Miranda, Laura Moret, James

Vazquez, *Senior Associates*

New York Aquarium

Business Services

Niko Radjenovic, *Associate Director*

Georgia Burke, *Area Manager,*

Merchandise

Derrick Clarke, *ACE Specialist,*

Merchandise

Wayne Ali, *Area Manager,*

Restaurants

Rocco Turco, *Unit Manager,*

Restaurants

Audra Browne, *Administrative Assistant*

PUBLIC AFFAIRS

John Calvelli, *Senior Vice President*

Jan Kaderly, *Assistant Director,*

Planning and Budget

GOVERNMENT AFFAIRS

Charles Vasser, *Director,*

Community Affairs

Rosemary DeLuca, *Manager,*

Municipal Relations

Sara Marinello, *Manager, Federal and State Relations*

Richard Van Heertum, *Associate*

Manager, Grants

Denise Browne, *Executive Assistant*

Diana Blackwell, *Administrative Assistant*

COMMUNICATIONS

Alison Power, *Director*

Maggie Byrne, *Secretary*

Bronx Zoo Communications

Linda Corcoran, *Assistant Director, NYC Facilities*

Alison Orenstein, *Associate Manager*

Mary Record, *Assistant Manager*

New York Aquarium

Frances Hackett, *Associate*

Manager, Communications

City Zoos

Diana Heide, *Associate Manager,*

Public Relations

Kate McIntyre, *Assistant Manager,*

Public Relations

Conservation Communications

Stephen Sautner, *Assistant Director*

John Delaney, *Associate Manager*

Wildlife Conservation Magazine

Deborah Behler, *Editor-in-Chief*

Julie Larsen Maher, *Creative*

Director

Nancy Simmons, *Senior Editor*

Carol Burke, *Editorial Manager*

Joshua Krause, *Production*

Coordinator

MARKETING AND SPONSORSHIP

Tamara Krizek, *Director*

Samantha Conlan, *Manager,*

Corporate Partnerships

Tim Russo, *Assistant Manager*

On-line Services

Marjorie Federici, *Manager*

Kevin Garrelick, *Assistant Manager*

Wildlife Conservation Magazine

Diana Warren, *Account Manager*

Robert Carswell, *Circulation Manager*

EVENT MARKETING

Rachel Libretti, *Assistant*

Director

Susann Holloway, *Manager,*

New York Aquarium

Leslie Lannon, *Manager,*

Central Park Zoo

Denise Pappalardi, *Associate*

Manager, Aquarium

Jose Serrano, *Associate Manager,*

Bronx Zoo

Heather Bellizzi, *Assistant Manager,*

Bronx Zoo

Lillian Vega, *Assistant Manager,*

Event Marketing

TELEVISION AND MEDIA

Julia Mair, *Vice President*

Steven Fairchild, *Senior Producer*

Leslie Hammond, *Manager,*

Development

Media Services

Thomas Veltre, *Manager*

Dennis DeMello, *Staff*

Photographer

Diane Shapiro, *Archivist*

GROUP SALES

Margaret Price, *Manager*

Nicole Nell-Joye, *Associate Manager*

Lenora Legette, Isela Suarez, *Sales*

Representatives

Venus Ramos, *Program Assistant*

Marisol Gabriel, *Operations Clerk*

Eliza Lazo, Elsa Perez, *Customer*

Representatives

INFORMATION TECHNOLOGY

Paula L. Simon, *Vice President,*

Chief Technology Officer

Michael Mariconda, *Director*

Fran Sorge, *Telecommunications*

Support Analyst

Allegra Hamer, Arul Chellaraj,
System Administrators

Michael Ferrante, *Network Systems*

Analyst

Jacues Williams, *System Analyst*

Charles Dean, Joseph Padilla, Joel

Papierman, *Systems Support*

Specialist

Byron Patten, *Audio-Visual*

Technician

Susan Acocella, *Secretary*

OFFICE OF GENERAL COUNSEL

W. B. McKeown, *Senior Vice*

President and General

Counsel

Evelyn J. Junge, *Associate General*

Counsel

Anna Martí, *Assistant General*

Counsel

Adriane Maisell, *Manager, Legal*

Services

Marina Witty, *Administrative*

Assistant

STAFF PUBLICATIONS

Articles and Books by WCS Staff and Associates

(A more complete bibliography is available at the Bronx Zoo Library.)

BEHAVIOR, ETHOLOGY, AND BEHAVIORAL ECOLOGY

Abernethy, K. A., L. J. T. White, and E. J. Wickings. 2002.

Hordes of mandrills (*Mandrillus sphinx*): extreme group size and seasonal male presence. *Journal of Zoology* 258, no. 1: 131-37.

Colon, Christina Paulette. 2003.

Ranging behaviour and activity of the Malay civet (*Viverra zibetha*) in a logged and an unlogged forest in Danum Valley, East Malaysia. *Journal of Zoology* 257: 473-85.

Foerster, Charles R., and Christopher Vaughan. 2002. Home range, habitat use, and activity of Baird's tapir in Costa Rica. *Biotropica* 34, no. 3: 423-37.

O'Brien, T. G., M. F. Kinnaird, and H. T. Wibisono. 2003.

Crouching Tigers, Hidden Prey: Sumatran tiger and prey populations in a tropical forest landscape. *Animal Conservation* 6, no. 2: 131-39.

Podos, J., V. M. F. Silva, and M. R. Rossi-Santos. 2002. Vocalizations of Amazon River dolphins, *Inia geoffrensis*: Insights into the evolutionary origins of delphinid whistles. *Ethology* 108: 601-12.

Zahler, Peter, and Mayo Khan. 2003. Evidence for dietary specialization on pine needles by the woolly flying squirrel (*Eupetaurus cinereus*). *Journal of Mammalogy* 84, no. 2: 480-486.

BOOKS

Crisman, T. L., L. J. Chapman, C. A. Chapman, and L. S. Kaufman, Eds. 2003. *Conservation, ecology, and management of African freshwaters*. Gainesville: University Press of Florida.

Medellin, R. A., C. Chetkiewicz, A. Rabinowitz, K. H. Redford, J. G. Robinson, E. Sanderson, and A. Taber, Eds. 2002. *El jaguar en el nuevo milenio. Una evaluación de su estado, detección de prioridades y recomendaciones para la conservación de los jaguares en América*. Mexico D.I.: Universidad Nacional Autónoma de México/Wildlife Conservation Society.



WCS Senior Clinical Veterinarian Bonnie Raphael prepares to examine an American flamingo at the Bronx Zoo.

CONSERVATION BIOLOGY

Conway, William. 2003. The role of zoos in the 21st century. *International Zoo Yearbook* 38: 7-13.

Ginsberg, J. R. 2002. CITES at 30, or 40. *Conservation Biology* 16, no. 5: 1184-91.

Redford, K. H., P. Coppolillo, E. W. Sanderson, G. A. B. da Fonseca, E. Dinerstein, C. Groves, G. Mace, S. Maginnis, R. A. Mittermeier, R. Noss, D. Olson, J. G. Robinson, A. Vedder, and M. Wright. 2003. Mapping the conservation landscape. *Conservation Biology* 17: 116-31.

Salafsky, N. R., R. Margolius, K. H. Redford, and J. G. Robinson. 2002. Improving the practice of conservation: A conceptual framework and agenda for conservation science. *Conservation Biology* 16: 1469-79.

Sanderson, Eric W., Malanding Jaiteh, Marc A. Levy, Kent H. Redford, Antoinette V. Wannebo, and Gillian Woolmer. 2002. The human footprint and the last of the wild. *Bioscience* 52, no. 10: 891-904.

Sanderson, Steven E. 2002. The future of conservation. *Foreign Affairs* 81, no. 5 (September-October): 162-73.

Sanderson, Steven E. 2003. The contemporary experience of wild nature and its meaning for conservation. 2003 Stamford Raftles Lecture. London and New York: Zoological Society of London and Wildlife Conservation Society.

ECOLOGY, FIELD CONSERVATION, AND REINTRODUCTION

Berger, Joel, Steven L. Montfort, Tom Roffe, Peter B. Stacey, and J. Ward Testa. 2003. Through the eyes of prey: How the extinction and conservation of North America's large carnivores alter prey systems and biodiversity. In *Animal behavior and wildlife conservation*. Eds. Marco Festa-Bianchetti, and Marco Apollonio, 133-55. Washington: Island Press.

Chapman, C. A., M. J. Lawes, L. Naughton-Treves, and T. R. Gillespie. 2003. Primate survival in community-owned forest fragments: Are metapopulation models useful amidst intensive use? In *Primates in fragments*. Ed. L. Marsh, 63-78. New York: Kluwer Academic/Plenum Publishers.

Chapman, L. J., C. A. Chapman, J. P. Olowo, P. J. Schofield, L. S. Kaufman, O. Seehausen, and R. Ogutu-Ohwayo. 2003. Fish faunal resurgence in Lake Nabugabo, East Africa. *Conservation Biology* 17:500-511.

Gompper, Matthew E. 2002. Top carnivores in the suburbs? Ecological and conservation issues raised by colonization of North Eastern North America by coyotes. *BioScience* 52, no. 2: 185-90.

Hayward, G. D., D. G. Miquelle, Evgeny N. Smirnov, and Chris Nations. 2002. Monitoring Amur tiger populations: Characteristics of track surveys in snow. *Wildlife Society Bulletin* 30, no. 4: 1150-1159.

Hilty, Jodi, and Adina M. Meren-

lender. 2003. Studying biodiversity on private lands. [Estudio de la biodiversidad en tierras privadas]. *Conservation Biology* 17, no. 1: 132-37.

Kamdem-Toham, A. W., A. W. Adeleke, N. D. Burgess, R. Carroll, J. D'Amica, E. Dinerstein, D. M. Olson, and L. Some. 2003. Forest conservation in the Congo Basin. *Science* 299: 346.

Karanth, D. K. U., J. D. Nichols, J. Seidensicker, E. Dinerstein, J. L. D. Smith, C. McDougal, A. J. T. Johnsingh, R. S. Chundawat, and V. Thapar. 2003. Science deficiency in conservation practice: The monitoring of tiger populations in India. *Animal Conservation* 6: 1-10.

Kinnaird, M., E. Sanderson, T. O'Brien, H. Wibisono, and G. Woolmer. 2003. Deforestation trends in a tropical landscape and implications for endangered large mammals. *Conservation Biology* 17, no. 1: 245-57.

McCann, Colleen, Kimberly Williams-Guillén, Fred Koontz, Alba Alejandra Roque Espinoza, Juan Carlos Martínez Sánchez, and Charles Koontz. 2003. Shade coffee plantations as wildlife refuge for mantled howler monkeys (*Alouatta palliata*) in Nicaragua. In *Primates in fragments*. Ed. L. Marsh, 321-41. New York: Kluwer Academic/Plenum Publishers.

McClanahan, Tim, Joseph Maina, and Lida Pet-Soede. 2002. Effects of the 1998 coral mortality event on Kenyan coral reefs and fisheries. *AMBIO: A Journal of the Human Environment*: 31, no. 7: 543-50.

Norton, T. M., B. Winn, M. S. Sepulveda, G. Masson, N. Denslow, C. Cray, M. Olivia, C. Sasser, E. Dierenfeld, and C. George. 2003. The American Oystercatcher (*Haematopus palliatus*): an indicator species for assessing ecosystem health along the Georgia and South Carolina coasts and barrier islands. *AAZV Conference Proceedings*: 130-134.

O'Brien, Timothy G., Margaret E. Kinnaird, Anton Nurcahyo, Maya Prasetyaningrum, and Muhammad Iqbal. 2003. Fire, demography and the persistence of siamang (*Symphalangus syndactylus*: Hylobatidae) in a Sumatran rainforest. *Animal Conservation* 6, no. 2: 115-21.

Platt, Steven G., Anthony G. Lyman, Yosapong Temsiripong, and Manote Kampanakngarn.

2002. Occurrence of the Siamese crocodile (*Crocodylus siamensis*) in Kaeng Krachan National Park, Thailand. *Natural History Bulletin of the Siam Society* 50, no. 1: 7-14.
- Plumptre, Andrew J. 2003. The biodiversity of the Albertine Rift. *Albertine Rift Technical Reports* no. 3: 1-104.
- Plumptre, Andrew J., D. Cox, and S. Mugume. 2003. The status of chimpanzees in Uganda. *Albertine Rift Technical Reports* no. 2: 1-70.
- Rode, K. D., C. A. Chapman, K. J. Chapman, and L. R. McDowell. 2003. Mineral resource availability and consumption by colobus in Kibale National Park, Uganda. *International Journal of Primatology* 24: 541-73.
- Sanderson, E. W., C. B. Chetkiewicz, R. A. Medellin, A. Rabinowitz, K. H. Redford, J. G. Robinson, and A. B. Taber. 2002. Prioridades geográficas para la conservación del jaguar. In: *El Jaguar en el nuevo milenio. Una evaluación de su estado, de detección de prioridades y recomendaciones para la conservación de los jaguares en América*. Eds. R. A. Medellin, C. Chetkiewicz, A. Rabinowitz, K. H. Redford, J. G. Robinson, E. Sanderson, and A. Taber, 601-27. Mexico D.F.: Universidad Nacional Autónoma de México/ Wildlife Conservation Society.
- Seng Kim Hout, Pech Bunnat, Colin M. Poole, Andrew W. Tordoff, Peter Davidson, and Etienne Delattre. 2003. *Directory of important bird conservation areas in Cambodia: key sites for conservation*. Phnom Penh: Department of Forestry and Wildlife, Department of Nature Conservation and Protection, BirdLife International in Indochina, and Wildlife Conservation Society Cambodia Program.
- Silver, S. C., and L. K. Marsh. 2003. Dietary flexibility, behavioral plasticity, and survival in fragments: Lessons from translocated howlers. In: *Primates in fragments*. Ed. L. Marsh, 251-64. New York: Kluwer Academic/Plenum Publishers.
- Stuart, B., B. Hayes, B. H. Manh, and S. G. Platt. 2002. Status of crocodiles in the U Minh Thuong Nature Reserve, southern Vietnam. *Pacific Conservation Biology* 8: 62-65.
- Twinomugisha, D., G. I. Basuta, and C. A. Chapman. 2003. Status and ecology of the Golden Monkey (*Cercopithecus mitis kandti*) in Mgahinga Gorilla National Park, Uganda. *African Journal of Ecology* 41: 47-55.
- EDUCATION, HUMAN IMPACT, AND VISITOR STUDIES**
- Bennett, E. L., and J. G. Robinson. 2002. Into the frying pan and onto the shelves of the apothecary: The fate of tropical forest wildlife in Asia. *Terrestrial ecoregions of the Indo-Pacific: a conservation assessment*. Eds. Eric D. et al. Wikramanayake, 124-26. Washington, D.C.: Island Press.
- Bennett, Elizabeth L., E. J. Milner-Gulland, Mohamed Bakarr, Heather E. Eves, John G. Robinson, and David S. Wilkie. 2002. Hunting the world's wildlife to extinction. *Oryx* 36, no. 4: 328-29.
- Davenport, Tim R. B., and Henry J. Ndangalasi. 2003. An escalating trade in orchid tubers across Tanzania's Southern Highlands: assessment, dynamics and conservation implications. *Oryx* 37, no. 1: 55-61.
- Hill, C. M., F. V. Osborn, and Andrew J. Plumptre. 2002. Human-wildlife conflict: identifying the problem and possible solutions. *Albertine Rift Technical Reports* no. 1: 1-137.
- Kinnaird, M. F., T. G. O'Brien, F. R. Lambert, and D. Purmiasa. 2003. Density and distribution of the endemic Seram cockatoo *Cacatua moluccensis* in relation to land use patterns. *Biological Conservation* 109, no. 2: 227-35.
- Nyhus, P., H. Fisher, F. Madden, and S. A. Osofsky. 2003. Taking a bite out of wildlife damage: A global perspective on why wildlife compensation schemes succeed or fail. *Conservation in Practice* 4, no. 2: 37-40.
- O'Brien, T. G., and M. F. Kinnaird. 2003. Caffeine and Conservation. *Science* 300: 587.
- Robinson, John G., and Elizabeth L. Bennett. 2002. Will alleviating poverty solve the bushmeat crisis? *Oryx* 36, no. 4: 332.
- Zahler, P. 2003. Top-down meets bottom-up: Conservation in a post-conflict world. *Conservation in Practice* 4, no. 1: 23-29.
- NUTRITION**
- Bechert, Ursula, Jack Mortenson, Ellen S. Dierenfeld, Peter Cheeke, Mark Keller, Michael Holick, Tai C. Chen, and Quinton Rogers. 2002. Diet composition and blood values of captive cheetahs (*Acinonyx jubatus*) fed either supplemented meat or commercial food preparations. *Journal of Zoo and Wildlife Medicine* 33, no. 1: 16-28.
- Sheppard, Christine, and Ellen Dierenfeld. 2002. Iron storage disease in birds: speculation on etiology and implications for captive husbandry. *Journal of Avian Medicine and Surgery* 16, no. 3: 192-97.
- POPULATION BIOLOGY AND GENETICS, WILD**
- Karanth, K. Ullas, James D. Nichols, John Seidensticker, Eric Dinerstein, James L. David Smith, Charles McDougal, A. J. T. Johnsingh, Raghunandan S. Chundawat, and Valmik Thapar. 2003. Science deficiency in conservation practice: the monitoring of tiger populations in India. *Animal Conservation* 6, no. 2: 141-46.
- Kerley, L. L., J. M. Goodrich, D. G. Miquelle, E. N. Smirnov, I. G. Nikolaev, H. B. Quigley, and M. G. Hornocker. 2003. Reproductive parameters of wild female Amur (Siberian) tigers (*Panthera tigris altaica*). *Journal of Mammalogy* 84, no. 1: 288-98.
- Rosenbaum, H. C., M. T. Weinrich, S. A. Stoleson, J. P. Gibbs, C. S. Baker, and R. DeSalle. 2002. The effect of differential reproductive success on population genetic structure: Correlations of life history with matriline in humpback whales of the Gulf of Maine. *Journal of Heredity* 93: 389-99.
- TAXONOMY, SYSTEMATICS, AND MOLECULAR GENETICS**
- Channing, A., D. C. Moyer, and K. M. Howell. 2002. Description of a new torrent frog in the genus *Arthroleptides* from Tanzania (Ranidae). *Alytes* 20, no. 1-2: 13-27.
- Gatesy, J., G. Amato, M. Norell, R. DeSalle, and C. Hayashi. 2003. Combined support for wholesale taxic atavism in Gavioline Crocodylians. *Systematic Biology* 52, no. 3: 403-22.
- Robinson, M. F., P. D. Jenkins, C. M. Francis, and A. J. C. Fulford. 2003. A new species of the *Hipposideros pratti* group (Chiroptera, Hipposideridae) from Lao PDR and Vietnam. *Acta Chiropterologica* 5, no. 1: 31-48.
- Uphyrkina, O., D. G. Miquelle, H. Quigley, and S. J. O'Brien. 2002. Conservation genetics of the Far Eastern leopard (*Panthera pardus orientalis*). *Journal of Heredity* 93: 303-11.
- VETERINARY MEDICINE AND PHYSIOLOGY**
- Hoogesteijn, A., B. L. Raphael, P. Calle, R. A. Cook, and G. Kollias. 2003. Oral treatment of avian lead intoxication with Meso-2,3-Dimercaptosuccinic Acid. *Journal of Zoo and Wildlife Medicine* 34, no. 1: 82-87.
- Kilbourn, A. M., W. B. Karesh, N. D. Wolfe, E. J. Bosi, R. A. Cook, and M. Andau. 2003. Health evaluation of free-ranging and semi-captive orangutans (*Pongo pygmaeus pygmaeus*) in Sabah, Malaysia. *Journal of Wildlife Diseases* 39, no. 1: 73-83.
- Lung, N. P., B. L. Raphael, J. C. Ramer, and R. Reichard. 2003. West Indian rock iguana conservation: The importance of veterinary involvement. *AAZV Annual Conference Proceedings* 2002, 234-38.
- Raphael, B. L., K. A. Buhlmann, and R. Hudson. 2003. The Turtle Survival Alliance in action: Surgical and medical triage of a large group of confiscated Asian turtles. *AAZV Annual Conference Proceedings* 2002: 282-84.
- Raphael, Bonnie L. 2003. Turtles, tortoises. In: *Zoo and wild animal medicine*. Fifth ed., Eds. M. E. Fowler, and R. E. Miller, 48-58. St. Louis: W. B. Saunders.
- WILDLIFE DISEASES**
- Calle, P. P. 2003. Rabies. In: *Zoo and wild animal medicine*. Fifth ed., Eds. M. E. Fowler, and R. E. Miller, 732-36. Philadelphia: W. B. Saunders.
- Calle, P. P., C. McClave, J. Smith, D. Rodahan, B. Mangold, and P. McDonough. 2003. An aquarium epizootic of *Leptospira interrogans serovar ballum*. *International Association for Aquatic Animal Medicine Annual Conference Proceedings* 2003: 23-24.
- Deem, S. L., W. B. Karesh, M. J. Linn, G. Schaller, B. Lhagvasuren, Hyamsuren, and K. Olson. 2002. Health evaluation of Mongolian gazelles, *Procapra gutturosa*, on the Eastern Steppes. *Gnusletter* 20: 18-20.
- Deem, S. L., A. J. Noss, R. L. Cuéllar, R. Villarroel, M. J. Linn, and D. J. Forrester. 2002. Sarcocystic mange in free-ranging pampas foxes in the Gran Chaco, Bolivia. *Journal of Wildlife Diseases* 38, no. 3: 625-28.
- Karesh, William B., Steven A. Osofsky, Tonie E. Rocke, and Paul L. Barrows. 2002. Joining forces to improve our world. *Conservation Biology* 16, no. 5: 1432-34.
- Ludwig, G. V., P. P. Calle, J. A. Mangiafico, B. L. Raphael, D. K. Danner, J. A. Hile, T. L. Clippinger, J. F. Smith, R. A. Cook, and T. McNamara. 2002. An outbreak of West Nile virus in a New York City captive wildlife population. *American Society of Tropical Medicine and Hygiene* 67, no. 1: 67-75.
- Wolfe, Nathan D., William B. Karesh, Annelisa M. Kilbourn, et al. 2002. The impact of ecological conditions on the prevalence of malaria among orangutans. *Vector Borne and Zoonotic Diseases* 2, no. 2: 97-103.

FACTS, AWARDS, CREDITS

AWARDS

■ The New York Aquarium received a Bronze Muse Award from the American Association of Museums' Media and Technology Committee in recognition of the highest standards of excellence in the use of media and technology for a collections database or research resource. Alien Stingers also brought WCS and consultant Unified Field an award from *e-Design* magazine for innovative digital design. The Aquarium was also the recipient of the

Volunteer Site Award from the Young Adults Institute for people with disabilities; and the Aquarium Education/Environmental quality Award from the President's Environmental Youth Awards, EPA/Region 2.

■ The Bronx Zoo and New York Aquarium Education departments received the Herman Melville Award from the New York State Marine Educators' Association for development of the elly jelly curriculum.

■ John Robinson was inducted into the Order of the Golden Ark by HRH Prince Bernhard of the Netherlands for his lifetime achievements in conservation.

■ George Schaller received a Lifetime Achievement Award at the Jackson Hole Wildlife Film Festival, held on September 25. During four decades of field research, Schaller has helped to create the paradigm of conservation biology by focusing on a particular species' role within its environment, encompassing indigenous people, vegetation, and other animals.

■ Elizabeth Bennett was awarded the Pegawai Bintang Sarawak, the Distinguished Order of Officer of the Star of Sarawak, by the Sarawak State Government, Malaysia, in recognition of her services to conservation in Sarawak.

■ Dale Lewis received the prestigious Whitley Award, presented by Princess Anne on March 13 at the Royal Geographic Society in London. The award, in the Nature Conservation category, recognized Lewis's creative approach in helping solve poaching problems in southern Africa. Lewis heads up a team of scientists and park managers in the Luangwa Valley in eastern Zambia, a semi-arid region rich in elephants, hippos, leopards and other large mammals.

■ Annelisa Kilbourn, of the Field Veterinary Program, was elected posthumously to the United Nations Environment Programme's Global 500 Roll of Honour for her outstanding contributions to the protection of the environment.



ANIMAL CENSUS

Bronx Zoo

Mammals
2,131 animals of 137 species
532 births

Birds
943 animals of 218 species
101 hatchings

Reptiles and Amphibians
756 animals of 137 species
86 births and hatchings

Children's Zoo, Bronx Zoo

Mammals
218 animals of 36 species
40 births

Birds
155 animals of 40 species
82 hatchings

Reptiles and Amphibians
224 animals of 36 species
11 births and hatchings

Senior Vice President, International

Conservation, John Robinson (above, with WCS President Steve Sanderson) was Inducted into the Order of the Golden Ark.

New York Aquarium

Mammals
23 animals of 8 species

Birds
29 animals of 1 species

Reptiles and Amphibians
11 animals of 4 species

Fish
3,514 animals of 270 species

Invertebrates
9,734 animals of 138 species

St. Catherines Wildlife Survival Center

Mammals
156 animals of 18 species
36 births and hatchings

Birds
152 animals of 36 species
11 hatchings

Reptiles
147 animals of 8 species
29 hatchings

Central Park Zoo

Mammals
256 animals of 24 species
130 births

Birds

OPERATING EXPENSES

Bronx Zoo	\$42,475,000
New York Aquarium	9,648,000
City Zoos	13,101,000
International Conservation	31,843,000
Lower Bronx River	
Habitat Restoration	5,255,000
Wildlife Conservation Magazine	1,415,000

Total Program Expenses \$103,737,000

Visitor Services 9,304,000

Supporting Services 14,414,000

Total

Wildlife Conservation Society \$129,455,000

ATTENDANCE AT WCS FACILITIES

Bronx Zoo	1,707,474
Congo Gorilla Forest	576,444
Butterfly Zone	193,935
Children's Zoo	354,931
Zoo Shuttle	227,402
Bengali Express	387,282
Skyfari	376,465

New York Aquarium 669,104

Central Park Zoo 793,243

Queens Zoo 215,280

Prospect Park Zoo 232,097

Total WCS Attendance 3,617,198

MEMBERSHIP AND MAGAZINE

Members 95,812

Wildlife Conservation circulation 161,310

283 birds of 60 species

47 hatchings

Reptiles and Amphibians

830 of 50 species

1 birth

Queens Zoo

Mammals

107 animals of 22 species

21 births

Birds

236 animals of 41 species

17 hatchings

Reptiles

58 animals of 11 species

Prospect Park Zoo

Mammals

98 animals of 28 species

9 births

Birds

96 animals of 27 species

Reptiles and Amphibians

223 animals of 40 species

3 births and hatchings

Total WCS Census

20,380 animals of 1,390 species

EDITOR: Deborah A. Behler

CREATIVE DIRECTOR: Julie Larsen Maher

STAFF PHOTOGRAPHER: Dennis DeMello

PREPRESS: Four Lakes Colorgraphics

PRINTER: Monroe Litho

PAPER: Printed on Gleneagle—

a recycled, chlorine-free and acid-free paper



Fonzie, a male California sea lion at the New York Aquarium, gives WCS Creative Director Julie Larsen Maher a kiss (right) and gets a routine check-up (below).

PICTURE CREDITS: front cover: Julie Larsen Maher; back cover: Dawn Greene; page 1: Steve Winter; page 2: Julie Larsen Maher; page 3: Dennis DeMello/WCS; pages 4-5: Julie Larsen Maher; page 6: John Robinson; page 7: Tim Davenport; pages 8-9: Dennis DeMello/WCS; pages 10-11: Julie Larsen Maher; page 12: Dennis DeMello/WCS (2), Julie Larsen Maher; page 13: Dennis DeMello/WCS (2), Julie Larsen Maher (3), Joshua Krause; page 14: Dennis DeMello/WCS (2), Julie Larsen Maher (2); page 15: Julie Larsen Maher (4), Dennis DeMello/WCS; page 16: Julie Larsen Maher (2), Dennis DeMello/WCS; page 17: Julie Larsen Maher (4), Dennis DeMello/WCS (2); pages 18-22: Dennis DeMello/WCS; page 23: Julie Larsen Maher; page 24: Julie Larsen Maher; page 25: Dennis DeMello/WCS; page 26: John L. Behler; page 27: Dennis DeMello/WCS; page 28-29: Robert Cook; page 30: Dennis DeMello/WCS (2), Tim Davenport, Julie Larsen Maher; page 31: Julie Larsen Maher (2), Susanne Bolduc, Kris Bosworth, Tim Davenport, Dennis DeMello/WCS; page 32-33: Julie Larsen Maher; page 34: Diane Shapiro/WCS; page 35: Dennis DeMello/WCS; page 36: Tim Davenport, Julie Larsen Maher; page 37-38: Julie Larsen Maher; page 39: Michael Corrado, Julie Larsen Maher; page 40: Dennis DeMello/WCS, Dawn Greene; page 41: Nalini Mohan; pages 42-43: Tim Davenport; pages 44-45: Steve Winter; page 46: E. L. Bennett, Tim Davenport; page 47: ©WCS; page 48: Heather Fenner; page 49: Joe Liebezit; page 50: Peter Ersts, Howard Rosenbaum; page 51: James M. Large; page 52: WCS; page 53: John Goodrich, Arlyne Johnson; page 54: D. Ireland, Alex Ruebel, Steve Winter; page 55: Felicity Arengo, E. L. Bennett, Todd Katzner, Kathy Quigley, Michael Williams; pages 56: Michael Scholl; page 57: Alison Ballance, Tim Davenport, Dan Erickson, M. Laplace-Toulouse, Julie Larsen Maher, Jeremy Radachowsky, Howard Rosenbaum; page 58: Eleanor Briggs, Melvin Gumal, Amy Vedder; page 59: E. L. Bennett (2), Patricia Calabrese (4), John Delaney; page 60: Amy Vedder; page 62: Enrique Derlindati; page 63: Kristen Kilbourn, Luis Claudio Marigo, Dina O'Meara; page 64: Dennis DeMello/WCS (2), Diane Shapiro (2), Julie Larsen Maher; page 65: Diane Shapiro (2), Julie Larsen Maher; pages 66: Diane Shapiro (3), Dennis DeMello/WCS; page 67: Julie Larsen Maher; page 69: Tim Davenport; pages 72-73: Patrick McMullan Company; page 74: Julie Larsen Maher (3), Dennis DeMello/WCS; page 75: Dennis DeMello/WCS (3), Patrick McMullan Company (2); Julie Larsen Maher; page 76: Dennis DeMello/WCS (2), Julie Larsen Maher, Patrick McMullan Company; page 77: Julie Larsen Maher (3), Linda Corcoran, Dennis DeMello/WCS, Doris Friedman, Diane Shapiro; page 78: James M. Large; page 80: Diane Shapiro; page 82: Julie Larsen Maher; page 84: Dennis DeMello/WCS; page 86: Robert Cook; page 88: Dennis DeMello/WCS; page 92: E. L. Bennett; page 94: Felicity Arengo; page 96: E. L. Bennett; inside back cover: Dennis DeMello/WCS, Julie Larsen Maher.

For information on how you can support the Wildlife Conservation Society, please call our Development Department at 718-220-5090. A copy of this annual report may be obtained by writing to the Wildlife Conservation Society, Office of the Chairman, Bronx Zoo, Bronx, New York 10460. In addition, a copy of WCS's annual filing with the Charities Bureau of the Office of the New York State Attorney General may be obtained by writing to the Charities Bureau, New York State Attorney General's Office, 3rd Floor, 120 Broadway, New York, New York 10271.



Recommended Form of Bequest

The Trustees of the Wildlife Conservation Society recommend that for estate planning purposes, members and friends consider the following language for use in their wills: "To the Wildlife Conservation Society, a not-for-profit, tax-exempt organization incorporated in the State of New York in 1895, having as its principal address the Wildlife Conservation Society, 2300 Southern Boulevard, Bronx, New York 10460, I hereby give and bequeath _____ for the Society's general purposes."

In order to help WCS avoid future administration costs, it is suggested that the following paragraph be added to any restrictions that are imposed on a bequest: "If at some future time, in the judgment of the Trustees of the Wildlife Conservation Society, it is no longer practical to use the income or principal of this bequest for the purposes intended, the Trustees have the right to use the income or principal for whatever purposes they deem necessary and most closely in accord with the intent described herein."

If you wish to discuss the language of your bequest with a member of the WCS staff, please be in touch with the Planned Giving Office at 718-220-5090.



WILDLIFE CONSERVATION SOCIETY

Bronx Zoo ■ 2300 Southern Boulevard ■ Bronx, New York 10460

www.wcs.org